

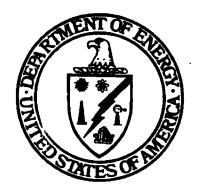
DOE/OR/21548-874 CONTRACT NO. DE-AC05-86OR21548

# POST-REMEDIAL ACTION REPORT FOR THE MATERIAL STAGING AREA WORK ZONE (WP-437/RU018)

WELDON SPRING SITE REMEDIAL ACTION PROJECT WELDON SPRING, MISSOURI

**MARCH 2001** 

REV. 0





U.S. Department of Energy
Oak Ridge Operations Office
Weldon Spring Site Remedial Action Project

Prepared by MK-Ferguson Company and Jacobs Engineering Group

510.20



Weldon Spring Site Remedial Action Project Contract No. DE-AC05-86OR21548

Rev. No. 0

PLAN TITLE: Post-Remedial Action Report for the Material Staging Area Work Zone (WP-437/RU018)

## **APPROVALS**

Environmental Safety and Health Manager	03/02/01
Environmental Safety and Health Manager V	Date
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Data Administration Coordinator	Date
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Project Quality Manager	3/22/2001 Date
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DOE/OR/21548-874

Weldon Spring Site Remedial Action Project

Post-Remedial Action Report for the Material Staging Area Work Zone (WP-437/RU018)

## **EXECUTIVE SUMMARY**

Revision 0

March 2001

Prepared by

MK-FERGUSON GROUP, INC. and JACOBS ENGINEERING GROUP 7295 Highway 94 South St. Charles, Missouri 63304

Prepared for

U.S. DEPARTMENT OF ENERGY
Oak Ridge Operations office
Under Contract DE-AC05-86OR21548

#### **EXECUTIVE SUMMARY**

Work Package-437 (WP-437) consists of 12 work zones and, due to the magnitude of the work package, a distinct Post-Remedial Action Report will address each zone separately. This report refers specifically to activities in the Materials Staging Area (MSA) work zone.

Contaminated soil was removed from the MSA as specified in the Record of Decision for Remedial Action at the Chemical Plant Area of the Weldon Spring Site (ROD). The objective of this action was to ensure that contaminated areas within the work zone were remediated to meet the cleanup criteria specified in the Chemical Plant Area Cleanup Attainment Confirmation Plan. The sample locations and analytical parameters are identified in the Confirmation Sampling Plan Details for the Disposal Cell Facility (WP-437) (Sampling Plan). The sampling frequency, sampling methods, and statistical evaluation were performed in accordance with the Chemical Plant Area Cleanup Attainment Confirmation Plan.

The MSA has been designated as Remedial Unit (RU) 18 and subdivided into confirmation units (CUs) that measure approximately 2,000 m<sup>2</sup> each. The work zone includes the material staging area, the MSA retention basin, and a portion of the Ash Pond isolation dike. Contaminants of concern (COCs) were identified for each CU using characterization soil sample results. COCs identified for RU018 included Radium-226, Radium-228, Thorium-230, Uranium-238, lead, trinitrotoluene (TNT), and polychlorinated biphenyls (PCBs). This post-remedial action report summarizes the remediation of 19 CUs as defined in the Sampling Plan, and one additional CU that was added to the work package during field activities.

Remedial activities for each CU included excavation of contaminated soil, radiological walkover surveying, and confirmation soil sampling. Preliminary results were reviewed and the CU was released to the subcontractor for backfilling and final grading. When the final analytical results were received, the data were compared to the preliminary results to verify that the established cleanup standards were achieved. Final analytical results for RU018 are presented below. This table was generated using the final data set compiled from all samples representing soils left in place.

## SUMMARY OF ANALYTICAL RESULTS FOR RU018 IN WP-437

CONTAMINANT	NO. OF SAMPLES	CONCENTRATION RANGE	AVERAGE CONCENTRATION	SURFACE ALARA	SURFACE CRITERIA	RESULTS >ALARA
Ra-226 (pCi/g)	370	0.43 - 1.90	1.29	5.00	6.20	0
Ra-228 (pCi/g)	370	0.48 - 1.75	1.19	5.00	6.20	0
Total Radium (pCi/g)	370	0.98 - 3.36	2.48	5.00	6.20	0
Th-230 (pCi/g)	17	0.71 - 5.97	1.52	5.00	6.20	1
Th-232 (pCi/g)	12	0.97-1.67	1.17	5.00	6.20	0
U-238 (pCi/g)	415	0.86 - 22.30	1.86	30.00	120.00	0
PAH (mg/kg)	3	0.00 - 0.03	0.01	0.44	5.60	0
Pb (mg/kg)	4	11.00 - 13.40	12.55	240	450	0
PCB (mg/kg)	37	0.00 - 1.90	0.05	0.65	8.00	1
TNT (mg/kg)	8	0.11 - 0.76	0.21	14	140	0

As indicated above, the average concentration for each COC was below the corresponding cleanup criteria and the ALARA goal. COC averages were calculated for each CU and found to be below ALARA, and the average radiological contaminant concentration in each 100 m<sup>2</sup> area was below cleanup criteria. Based on the analytical results presented above, all CUs within RU018 were released for unrestricted use.

DOE/OR/21548-874

Weldon Spring Site Remedial Action Project

Post-Remedial Action Report for the Material Staging Area Work Zone (WP-437/RU018)

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#### **ABSTRACT**

Work Package 437 (WP-437) has been divided into 12 work zones. This report details the confirmation field activities and analytical results for contaminated soil removal of the Materials Staging Area portion of WP-437. This 14-acre area is further subdivided into 20 confirmation units.

Materials stockpiled at the Materials Staging Area included asbestos-containing materials, metal debris and machinery from building demolition, roll-off boxes containing personal protection equipment, polychlorinated biphenyl (PCB) contaminated concrete, non-regulated wood debris, brine material from the site water treatment plant, and roll-off boxes containing filter cake from the same water treatment plant.

Soil characterization results and pre-excavation walkovers determined that the work zones contained contaminant concentrations that exceeded the ALARA goals established in the Record of Decision for Remedial Action at the Chemical Plant Area of the Weldon Spring Site. Remediation was designed to achieve surface ALARA goals, and confirmation of soil remediation was required to meet ROD cleanup standards. Final confirmation data verify that the established goals and standards were achieved.

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#### 1. INTRODUCTION

## 1.1 Purpose

WP-437 is divided into 12 work zones, 11 of which are identified in Figure 1-1. In addition, there is the Vicinity Property DA-6 work zone located off site just west of the Ash Pond work zone. This report details the confirmation field activities and analytical results for contaminated soil removal of the Materials Staging Area (MSA) portion of Work Package-437 (WP-437). The 14-acre former MSA work zone is further subdivided into 20 confirmation units (CUs) that are collectively known as remedial unit (RU) 18 and are identified in Figure 1-2.

Materials stockpiled at the MSA included asbestos-containing materials, metal debris and machinery from building demolition, roll-off boxes containing personal protection equipment, polychlorinated biphenyl (PCB) contaminated concrete, non-regulated wood debris, brine material from the site water treatment plant, and roll-off boxes containing filter cake from the same water treatment plant.

Soil characterization results and pre-excavation walkovers of the WP-437 work zones determined that the work zones contained contaminant concentrations that exceeded the As Low As Reasonably Achievable (ALARA) goals established in the Record of Decision for Remedial Action at the Chemical Plant Area of the Weldon Spring Site (ROD) (Ref. 1). Remediation was designed to achieve surface ALARA goals, and confirmation of soil remediation to the ROD cleanup standards was required.

## 1.2 Scope

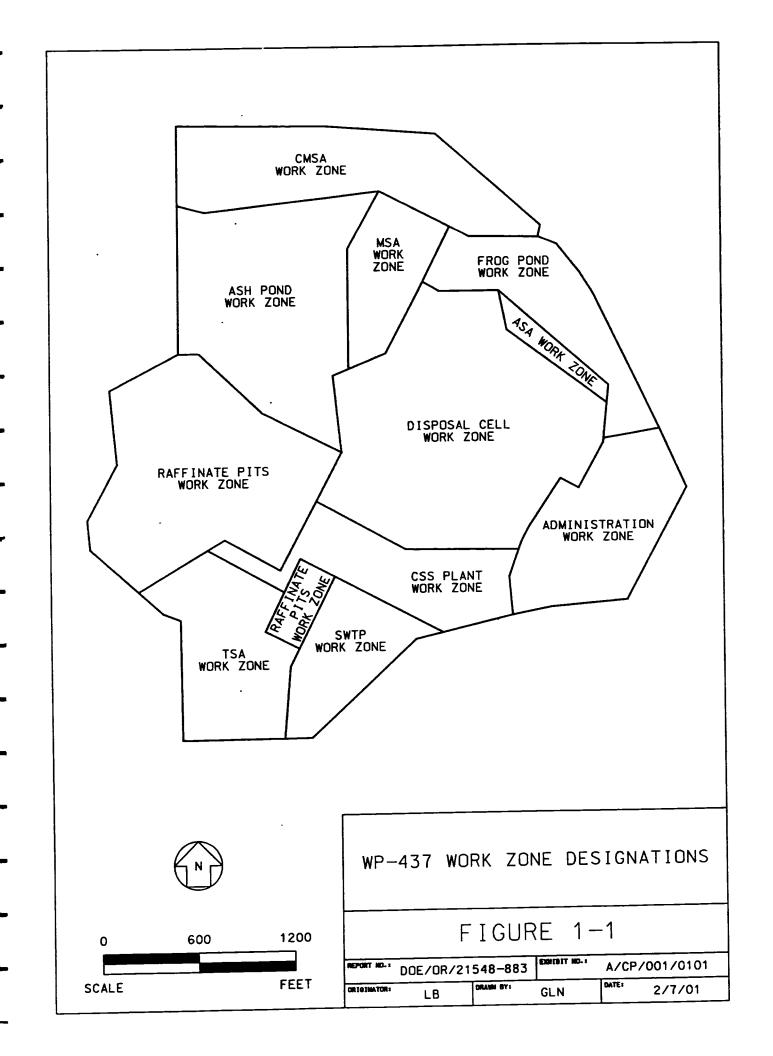
This report describes only the remedial activities and confirmation surveying and sampling conducted on contaminated soils within RU018. Confirmation walkovers and soil sampling were conducted in accordance with the Confirmation Sampling Plan Details for the Disposal Cell Facility (WP-437) (Ref. 2). This plan was developed to ensure that the objectives identified in the Chemical Plant Area Cleanup Attainment Confirmation Plan (Ref. 3) were accomplished, and to ensure that established remediation requirements of the ROD were met.

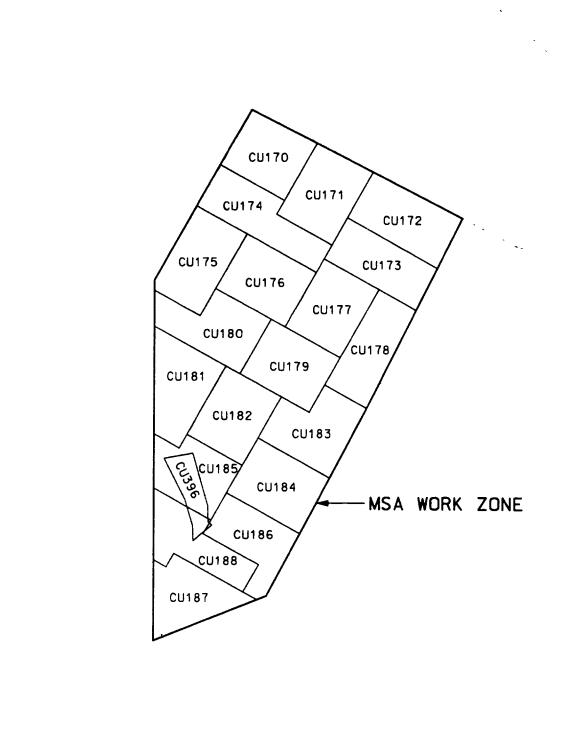
#### 1.3 Remediation and Confirmation Process

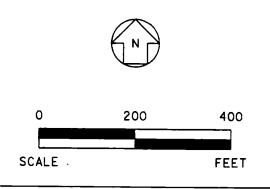
This report details the activities conducted to remediate the MSA portion of WP-437, which consists of CUs 170 through 188, and CU396. Remediation consisted of excavation of contaminated soils and debris. Following the remediation activities, walkovers were conducted and confirmation samples were collected to ensure that all contaminated materials had been remediated.

The entire remediation process included characterization sampling, historical data review, contaminants of concern (COC) identification, confirmation plan development, contaminated

soil excavation, radiological walkover surveys, confirmation soil sampling, preliminary and final data review, completion of disposition forms, quality assurance/quality control (QA/QC) review, summary of findings and conclusions, and closure report preparation.







CONFIRMATION UNITS IN REMEDIAL UNIT 18

FIGURE 1-2

## 2. PRE-REMEDIATION ACTIVITIES

#### 2.1 Review of Characterization Data

Contaminants of concern (COCs) were identified for each confirmation unit by reviewing results of characterization data. The full process for identifying COCs is detailed in the Confirmation Sampling Plan Details for the Disposal Cell Facility (WP-437) (Ref. 2). Radiological COCs identified for RU018 were Radium-226 (Ra-226), Radium-228 (Ra-228), Thorium-230 (Th-230), and Uranium-238 (U-238). Chemical COCs were lead, polychlorinated biphenyls (PCBs), and trinitrotoluene (TNT). Polynuclear aromatic hydrocarbons (PAH) were added as a COC in affected areas of CU181 when cinders were identified during remediation activities.

## 2.2 Data Quality Objectives

Data Quality Objectives (DQOs) were identified to specify data quality and ensure that the data would be sufficient to support the decision making process throughout remedial activities, including the confirmation process. Confirmation DQOs were developed for sampling and analyzing soils during remediation and for the subsequent data evaluation. The DQOs were designed to make statistically defensible decisions regarding attainment of cleanup standards. Sampling and analytical programs for the WP-437 work zones were designed in accordance with DQOs stated in the *Chemical Plant Area Cleanup Attainment Confirmation Plan* (Ref. 3).

## 2.3 Cleanup Standards

The objective of the Department of Energy (DOE) ALARA process is to reduce exposures and risks associated with residual contamination. The ROD (Ref. 1) established two different sets of cleanup standards: risk-based cleanup criteria and As Low As Reasonably Achievable (ALARA) goals. Remedial activities for WP-437 were designed to remove soil where the COC concentrations were found by characterization or during remediation activities to be above ALARA goals. Table 2-1 summarizes the cleanup criteria and ALARA goals established in the ROD that are applicable for COCs in the MSA work zone. Throughout the remedial activities at RU018, COC concentrations were evaluated with the ALARA process.

## 2.4 Cleanup Confirmation Process

The cleanup confirmation process is used to determine, under the remedial guidelines, if remediation activities have achieved the cleanup standards. Figure 2-1 shows the cleanup confirmation process for remedial activities conducted at the WP-437 area.

The decision-making process specifies how the data will be applied and evaluated within the cleanup confirmation process. The decision-making process includes provisions for any hot

spots that may be encountered by applying a formula to determine the acceptable concentration for the COC.

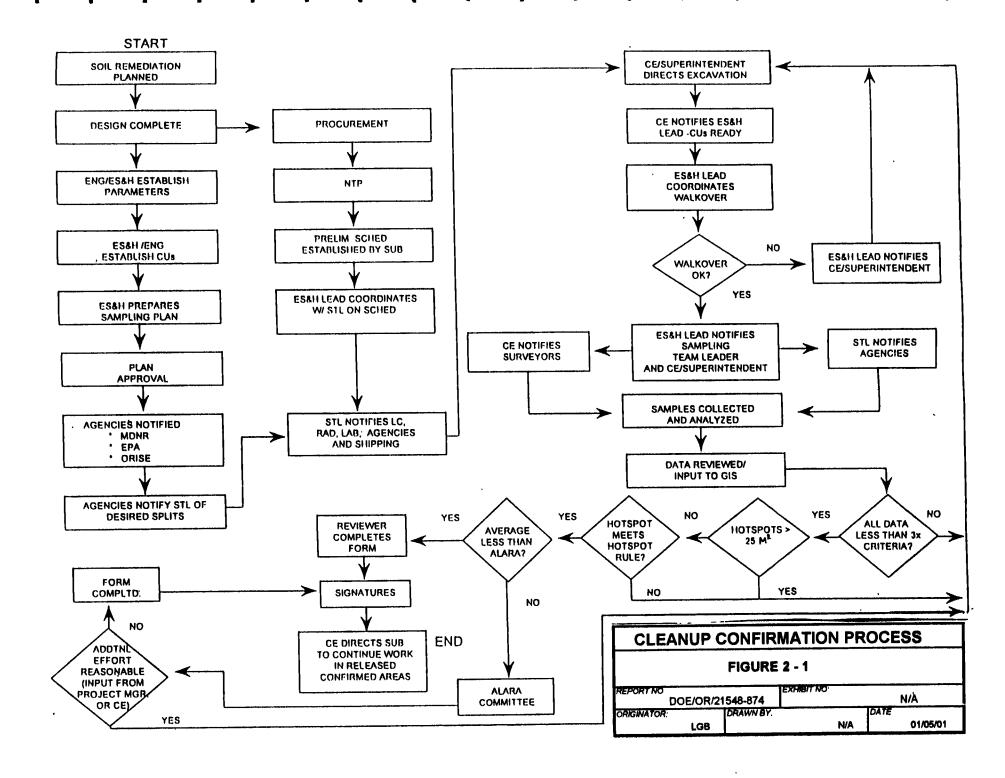
Table 2-1 ROD Cleanup Standards for COCs within the WP-437 MSA Work Zone

	SUR	FACE (8)	SUBSURFACE (D)		
RADIONUCLIDE	ALARA	CRITERIA	ALARA	CRITERIA	
Ra-226 (pCi/g)	5.0	6.2	5.0	16.2	
Ra-228 (pCi/g)	5.0	6.2	5.0	16.2	
Total Radium (pCi/g)	5.0	6.2	5.0	16.2	
Th-230 (pCi/g)	5.0	6.2	5.0	16.2	
U-238 (pCi/g)	30.0	120	30.0	120.0	
Chemical				120.0	
PAH (mg/kg)	0.44	5.6	5.6	56	
Pb (mg/kg)	240	450	450	4,500	
PCB (mg/kg)	0.65	8	8	80	
TNT (mg/kg)	14	140	140	1,400	

<sup>(</sup>a) Values listed for surface soils apply to concentrations within the upper 15 cm (6 in.) of the soil column.

Source: Record of Decision for Remedial Action at the Chemical Plant Area of the Weldon Spring Site (Ref. 1)

<sup>(</sup>b) Values for subsurface apply to concentrations in soils below 15 cm (6 in.).



#### 3. REMEDIAL ACTIVITIES

#### 3.1 Excavation Activities

Contaminated soils and other debris from the material staging area (MSA) work zone were first excavated to design depth as detailed in the MSA work zone specifications (Ref. 7). After the initial excavation was complete, radiological walkover surveys were conducted to evaluate the need for additional excavation. The walkover surveys were conducted using a 2 in. x 2 in. sodium iodide (NaI) scintillation detector. When the surveys indicated no additional excavation was needed, confirmation soil samples were collected.

Confirmation results were then reviewed, and additional excavation and confirmation sampling was conducted in hot spot areas, if necessary. After achieving cleanup standards, a disposition form was completed with preliminary analytical results. The form was reviewed and signed by authorized project personnel. The confirmation unit (CU) was then released back to the subcontractor.

#### 3.2 Field Activities

Field activities completed during remediation, such as walkover surveys and soil sampling, were conducted in accordance with procedures specified in the Confirmation Sampling Plan Details for the Disposal Cell Facility (WP-437) (Ref. 2). Field activities were conducted to achieve and document sampling objectives specified in the Chemical Plant Area Cleanup Attainment Confirmation Plan (Ref. 3). All sampling and remedial action surveys were conducted and documented in accordance with Weldon Spring Site Remedial Action Project (WSSRAP) Environmental Safety and Health (ES&H) procedures.

## 3.2.1 Walkover Surveys

Radiological walkover surveys were conducted after excavation was completed to determine if confirmation sample collection could begin. The surveys were conducted using a 2 in. x 2 in. NaI scintillation detector. The survey readings were within an acceptable range (less than 1.5 times background) throughout the entire work zone. The ranges for each CU are listed in the CU Summary Forms in Section 4 of this report. Copies of the final walkover forms can be found in Appendix A.

## 3.2.2 Soil Sampling

Once the walkovers were sufficiently completed, soil sampling was conducted as part of the confirmation process. The sampling locations for CUs in RU018 are shown in the figures in Section 4. Analytical suites for the CUs were dependant upon the COC list developed from historical information and characterization data, as discussed in Section 2.

One Thorium-230 hot spot was encountered during confirmation of this RU. The location was further remediated in accordance with the guidelines established in the *Chemical Plant Area Cleanup Attainment Confirmation Plan* (Ref. 3). The subsequent survey and confirmation sample results indicated that contaminants were below cleanup criteria and the averages were less than ALARA; therefore, no further remediation was conducted for RU018. Disposition forms were completed following the receipt of preliminary analytical data for all CUs within the MSA work zone.

## 3.3 Laboratory Activities

Radiological analyses for RU018 were conducted at the on-site laboratory in accordance with the *Project Management Contractor Quality Assurance Program* (Ref. 4) and the *Environmental Quality Assurance Project Plan* (EQAjP) (Ref. 5). Chemical analyses for RU018 were conducted at subcontracted off-site laboratories using Contract Laboratory Program (CLP) methodologies. Summaries of the analytical results for each CU can be found in Section 4 of this report. Analytical data were subjected to data evaluation and validation upon receipt from the laboratory.

#### 3.4 Verification Activities

The Oak Ridge Institute for Science and Education (ORISE) was contracted by the DOE to verify confirmation soil sampling in the chemical plant area. Verification activities included independent walkover radiological surveys and collection and analysis of soil samples to verify proper disposition of CUs. Field verification activities were conducted in accordance with ORISE's final survey plan (Ref. 8). ORISE verification indicated no hot spots were identified with RU018.

#### 4. CONFIRMATION UNIT RESULTS SUMMARY

This section summarizes the confirmation unit analytical results for the 20 CUs in RU018. In total, 415 locations were sampled between March 1998 and July 2000. Preliminary results were below cleanup criteria with the exception of one Thorium-230 hot spot in CU396. The area was reexcavated and the location was resampled. The resample results were less than ALARA. Average COC concentrations for RU018 remained below ALARA goals and all 100 m<sup>2</sup> averages were less than criteria.

After the preliminary data were reviewed, disposition forms were completed and signed by authorized reviewers. Based on the preliminary confirmation data, all CUs in RU018 were fully released as complying with surface cleanup standards.

Note that the preliminary data were the initial results available immediately from the laboratory and were used for releases. These preliminary results could vary from the final results based upon laboratory quality checks or Weldon Spring Site Remedial Action Project (WSSRAP) verification activities.

Upon receipt of the data packages, the final data were reviewed and compared to the preliminary data. The final analytical results agreed with the preliminary results and indicated that the remedial activities were completed. The final results met the cleanup standards as detailed in the *Chemical Plant Area Cleanup Area Attainment Confirmation Plan* (Ref. 3) for all CUs in RU018. Tables 4-1 through 4-20 and associated figures provide the confirmation details for each CU. The final data are presented in Appendix B.

	Table 4 - 1 S	ummary of CU17	0				
CU 170 COC Ra-226 Ra-228 Th-230 Th-232 U-238 Reference Figure:	X   Cr     Pb	CLEANUP STAPE EACH 100m² < CRIT LOCATION DESCR	10  NDARD X  TERIA? X  IPTION: This	/ 1 / 98 SURFACE YES CU is locate	SUBSU	JRFACE	
WALKOVER SURVEY INFO BACKGROUND: 11000 DATE(S) SCANNED:	cpm FII	NAL SURVEY(S) BELOW 1.5 X BACKGROUND ?	X	YES	□NO		
CONFIRMATION SAMPLING TOTAL # OF SAMPLE LOCATIONS:  TOTAL # OF UTILITY SAMPLES:	27	AVERAGES < A HOTS IONAL EXCAVATION REQU	POTS?	YES   YES	NO X NO X NO		
GENERAL COMMENTS - All results are below ALARA.  ORISE ACTION - None  ALARA COMMITTEE ACTION - None							
CU SUMMARY DATA				6.2	0	0	
Ra-226         27           Ra-228         27           Total Radium         27           U-238         27           NOTE: Radiological contaminant	1.1 - 1.68 0.57 - 1.63 1.97 - 3.26 1.35 - 2.54 s are listed in pCi/g.	1.41 1.24 2.65 1.79	5 5 5 ·30	6.2 6.2 120	0 0	0 0	



#### SC-17002-S

\$C-17003-S

\$C-17007-\$ \$C-17004-\$

\$C-17011-C \$C-17008-S \$C-17005-S

\$C-17012-S \$C-17009-S \$C-17101-S

\$C-17013-\$ \$C-17010-\$

\$C-17017-5 \$C-17014-5 \$C-17105-5

\$C-17021-C \$C-17018-S \$C-17015-S

\$C-17022-S \$C-17019-S

\$C-17109-S

SC-17023-S

\$C-17020-S

\$C-17024-S

SC-17025-S

SC-17117-S

150	75	0	150	Sample Locations in Remedial Confirmation Unit CU							RU018
<b>50</b>	25	0		METER	Figure: 4-1						
					REPORT NO.:	DOE/OR	/21548-874	EXHIBIT NO			
					ORIGINATOR	MGL	DRAWN 3Y:	LGB	DATE	12/	19/00

	Table 4 -2 Summary of CU171								
CU 171 COC Ra-226 Ra-228 Th-230 Th-232 U-238 Reference Figure:	X PAH PCB X	CLEANUP STAND EACH 100m <sup>2</sup> < CRITI LOCATION DESCRIP border of the MS	10 ARD X SERIA? X YETION: This C	URFACE ES CU is located	SUBSUF	RFACE			
WALKOVER SURVEY INFORMATION  BACKGROUND: 11000 cpm FINAL SURVEY(S) BELOW  1.5 X BACKGROUND? X YES NO  DATE(S) SCANNED: 9/28/98									
CONFIRMATION SAMPLING INFORMATION  TOTAL # OF SAMPLE LOCATIONS: 30 HOTSPOTS? YES X NO  TOTAL # OF UTILITY SAMPLES: 0 ADDITIONAL EXCAVATION REQUIRED? YES X NO									
GENERAL COMMENTS - One PCB result > ALARA, but average is < criteria.  ORISE ACTION - None  ALARA COMMITTEE ACTION - None									
CU SUMMARY DATA	CU SUMMARY DATA								
Ra-226       30         Ra-228       30         Total Radium       30         U-238       30         PCB       6         NOTE: Radiological contaminar	1.11 - 1.77 0.61 - 1.63 1.94 - 3.04 1.34 - 2.15 0 - 1.9	1.37 1.22 2.58 1.67 0.32 contaminants are listed in m	5 5 30 0.65 g/kg.	6.2 6.2 6.2 120	0 0 0 0	0 0 0 0			



### SC-17101-S

SC-17102-S

SC-17105-S

SC-17103-S

SC-17106-S

SC-17104-5

SC-17109-S

SC-17107-S

SC-17201-S

SC-17110-S

.

SC-17108-S

\$C-17113-\$

ુાળ<sup>9</sup> SC-17111-S

\$C-17208-S

SC-17114-S

: 107

SC-17112-S

SC-17117-S

SC-17115-S

SC-17215-5

SC-17118-S

SC-17116-5

SC-17121-S

SC-17119-S

\$C-17222-5

SC-17122-S

SC-17120-S

\$C-17123-\$

\$C-17301-S

SC-17124-S

SC-17308-S

150 75 0 150 FEET

50 26 0 50 METERS

Sample Locations in Remedial Unit RU018
Confirmation Unit CU171

Figure: 4-2

PEPORT NO DOE/OR/21548-874 EXHIBIT NO

INATOR MGL DRAWN BY LGB PATE 12/19/00

	Table 4 - 3 Summary of CU172								
CU 172 RU 18 DATE RELEASED FOR UNRESTRICTED USE:  COC Ra-226 X As									
WALKOVER S	URVEY INFO	RMATION							
BACKGROUND:				SURVEY(S) BELOW 5 X BACKGROUND ?	X	YES			
CONFIRMATIO	N SAMPLIN	G INFORMATION							
TOTAL # OF SAMPLE LOCAT TOTAL # OF UTILITY SAMPLE	E <b>S</b> :	0 All results are below A		AVERAGES < A HOTS	POTS?	YES   YES   YES	X NO		
CENCION									
	ORISE ACTION - None  ALARA COMMITTEE ACTION - None								
CU SUMMARY	DATA								
Ra-226	32	1.00 - 1.58		1.31	5	6.2	0	0	
Ra-228	32	0.57 - 1.58		1.16	5	6.2	0	0	
Total Radium	32	1.70 - 3.02		2.47	5	6.2	0	0	
U-238	32	1.29 - 2.72		1.73	30	120	0	0	
PCB	11	0 - 0.04		0.003	0.65	8	0	0	
NOTE. Radiologic	al contaminants	are listed in pCi/g. Ch	emical con	taminants are listed in m	g/kg.				



SC-17201-S

SC-17202-S

SC-17208-5 SC-17203 SC-17203-C SC-17210-S \$C-17209-\$

SC-17215-S \$C-17205-\$C-17205-C SC-17216-S

\$C-17211-\$ \$C-17206-S

SC-17222-S SC-17217-S SC-17212-S \$C-17207-S

\$C-17223-5 \$C-17218-S \$C-17213-S

\$C-17214-C \$C-17224-5 \$C-17219-5 \$C-17214-S

\$C-17225-5 \$C-17220-5 \$C-17221-C

\$C-17226-S

SC-17227-S

SC-17228-S

150 76 0		150	FEET	Sample Locations in Remedial Unit RU01 Confirmation Unit CU172						
<b>50</b>	25	0	50	METERS	Figure: 4-3					
					REPORT NO	DOE/OR	/21548-874	EXHIBIT NO	) ·	
					ORIGINATOR	MGL	DRAWN BY	LGB	DATE	12/19/00

i	Table 4 - 4	Summary of CU173						
CU 173 COC Ra-22 Ra-22 Th-23 Th-23 U-23	28 X Cr	DATE RELEASED FOR UNRESTRICTED USE:  10 / 21 / 98  CLEANUP STANDARD X SURFACE SUBSURFACE EACH 100m² < CRITERIA? X YES NO  LOCATION DESCRIPTION: This CU is located in the northeast area of the MSA work zone.						
WALKOVER SURVEY IN  BACKGROUND: 4200 (shielded)  DATE(S) SCANNE	- 11000 cpm I (not shielded)	FINAL SURVEY(S) BELOW  1.5 X BACKGROUND ? X YES NO  16/98						
CONFIRMATION SAMPL TOTAL # OF SAMPLE LOCATIONS:  TOTAL # OF UTILITY SAMPLES:  GENERAL COMMENT		AVERAGES < ALARA? X YES NO HOTSPOTS? YES X NO HITIONAL EXCAVATION REQUIRED? YES X NO						
ORISE ACTION - None  ALARA COMMITTEE ACTION - None								
CU SUMMARY DATA								
Ra-226       28         Ra-228       28         Total Radium       28         U-238       28         NOTE: Radiological contamina	0.85 - 1.56 0.65 - 1.70 1.89 - 3.03 1.23 - 1.99 ants are listed in pCi/g.	1.27     5     6.2     0     0       1.28     5     6.2     0     0       2.55     5     6.2     0     0       1.63     30     120     0     0						



SC-17222-S

SC-17223-S

\$C-17301-S \$C-17224-S

\$C-17302-S

\$C-17308-S \$C-17303-S \$C-17226-S

\$C-17309-\$

SC-17227-S

\$C-17315-S \$C-17310-S

SC-17305-S SC-17228-S

SC-17316-S

\$C-17311-S

\$C-17317-S \$C-17312-S \$C-17307-S

\$C-17318-S \$C-17313-S

\$C-17319-S \$C-17314-S

\$C-17320-S

SC-17321-S

150	75	0	150	FEET
<b>50</b>	25	0	50	METER

# Sample Locations in Remedial Unit RU018 Confirmation Unit CU173

Figure: 4-4 DOE/OR/21548-874

ORIGINATOR MGL LGB 12/19/00

Table 4 - 5 Summary of CU174						
CU 174  COC Ra-226 Ra-228  Th-230  Th-232  U-238  Reference Figure:	RU 18  X As	CLEANUP STANI EACH 100m² < CRIT LOCATION DESCRIF area of the MSA	DARD X SUFERIA? X YES	6 / 98 RFACE [	SUBSU	RFACE
WALKOVER SURVEY INFO BAÇKGROUND: 11000 DATE(S) SCANNED:	cpm <b>FINA</b>	AL SURVEY(S) BELOW 1.5 X BACKGROUND ?	XYE	s [	NO	
CONFIRMATION SAMPLING TOTAL # OF SAMPLE LOCATIONS: TOTAL # OF	32	AVERAGES < AL	YE	:s [	NO X NO	
	All resuits are below ALARA.	NAL EXCAVATION REQUI	YE	.s [	X NO	
ALARA COMMITTEE ACTION - None						
CU SUMMARY DATA						
Ra-226       32         Ra-228       32         Total Radium       32         U-238       32         NOTE: Radiological contaminants	1.19 - 1.88 0.57 - 1.55 1.87 - 3.27 1.34 - 3.16	1.45 1.22 2.68 1.76	5 5 5 30	6.2 6.2 6.2 120	0 0 0	0 0 0



SC-17022-S

SC-17023-S

\$C-17402-5 \$C-17024-S

SC-17403-S SC-17025-S

\$C-17407-S \$C-17404-S \$C-17117-S

\$C-17408-S

SC-17416-S SC-17409-S SC-17121-S

\$C-17417-S \$C-17410-S \$C-17122-S

SC-17418-S SC-17411-S SC-17123-S

\$C-17419-\$ \$C-17412-\$ \$C-17124-\$

\$C-17420-\$ \$C-17413-\$ \$C-17308-\$

\$C-17421-\$ \$C-17414-\$

SC-17422-S SC-17315-S

SC-17423-S

\$C-17701-S

150	75 	0	150	FEET
<b>50</b>	25	0	50	METERS

Sample	Locations	in	Remedial	Unit	RU018
	Confirma	tio	n Unit CU	174	

Figure: 4-5

REPORT NO .: DOE/OR/21548-874 EXHIBIT NO

DRAWN BY. LGB MGL DATE 12/19/00

•	Table 4 - 6 Summary of CU175							
CU 175 COC Ra-226 Ra-228 Th-230 Th-232 U-238 Reference Figure:	X Cr Pb Ti X PAH PCB	CLEANUP STA  EACH 100m <sup>2</sup> < Cl  LOCATION DESC	6 / 3  ANDARD X SURI  RITERIA? X YES	No is located along the	URFACE			
WALKOVER SURVEY INFO  BACKGROUND: 10,000  DATE(S) SCANNED:	- <u>11,000</u> cpm	FINAL SURVEY(S) BELOW 1.5 X BACKGROUND 1 22/00		S NO				
CONFIRMATION SAMPLING TOTAL # OF SAMPLE LOCATIONS: TOTAL # OF UTILITY SAMPLES:	31		ALARA? X YES SPOTS? YES QUIRED? YES	S XNO				
GENERAL COMMENTS  ORISE ACTION  ALARA COMMITTEE ACTION	None	ARA.						
CU SUMMARY DATA								
Ra-226         29           Ra-228         29           Total Radium         29           U-238         31    NOTE: Radiological contaminant	0.84 - 1.78 0.58 - 1.75 1.77 - 3.09 1.19 - 5.71	1.36 1.22 2.57 2.15	5 5 5 30	6.2 0 6.2 0 6.2 0 120 0	0 0 0			



SC-17416-S

SC-17501-C

\$C-17417-S

\$C-17502-S \$C-17418-S

\$C-17503-\$ \$C-17419-\$

SC-17506-S SC-17504-S

\$C-17509-C \$C-17507-S \$C-17601-S

\$C-17510-S \$C-17508-S

\$C-17511-S \$C-17606-S

\$C-17514-\$ \$C-17512-\$

\$C-17517-C

\$C-17515-\$ \$C-17611-\$

SC-17518-S

SC-17516-S

\$C-17519-\$ \$C-17616-\$

\$C-17522-S

\$C-17520-S

\$C-17523-\$ \$C-18001-\$

SC-17524-S

SC-18005-S

150	75 	o = =====	150	FEET
50	25	0	50	METERS

Sample	Locations	in	Remedial	Unit	RU018
	Confirma	tio	n Unit CU	175	

Figure: 4-6

DOE/OR/21548-874 EXHIBIT NO .

DEAWN BY. LGB ORIGINATOR MGL 12/19/00

Table 4 - 7 Summary of CU176						
CU 176  COC Ra-226  Ra-228  Th-230  Th-232  U-238  Reference Figure:	X Cr Pb Ti X PAH PCB	DATE RELE  CLEANUP STA  EACH 100m² < CR  LOCATION DESCR  central portion	10  NDARD X  ITERIA? X  RIPTION: This	/ 6 / 98 SURFACE [ YES [ CU is located	SUBSU	IRFACE
WALKOVER SURVEY INFO BACKGROUND: 11000 DATE(S) SCANNED:	)cpm	FINAL SURVEY(S) BELOW 1.5 X BACKGROUND ?	X	YES [	NO	
CONFIRMATION SAMPLING TOTAL # OF SAMPLE LOCATIONS: TOTAL # OF UTILITY SAMPLES:	30	AVERAGES < /	SPOTS?	YES [ YES [	NO X NO	
GENERAL COMMENTS - All results are below ALARA.  ORISE ACTION - None  ALARA COMMITTEE ACTION - None						
CU SUMMARY DATA						
Ra-226       30         Ra-228       30         Total Radium       30         U-238       30         NOTE: Radiological contaminant	0.96 - 1.64 0.57 - 1.60 1.87 - 3.12 1.33 - 6.15 te are listed in pCi/o	1.24 2.67	5 5 5 30	6.2 6.2 6.2 120	0 0 0	0 0 0



SC-17419-S

SC-17420-S

\$C-17601-S

SC-17421-S

\$C-17602-\$

SC-17422-S

\$C-17606-S

\$C-17603-\$ \$C-17423-\$

\$C-17607-S \$C-17604-S \$C-17701-S

SC-17611-S

\$C-17608-S

\$C-17612-S \$C-17609-S \$C-17705-S

\$C-17616-S

\$C-17613-\$ \$C-17610-\$

\$C-17617-S \$C-17614-S

\$C-17709-S

SC-17618-S

\$C-17615-S

\$C-17619-\$ \$C-17713-\$

SC-17620-S

SC-17717-S

150	76 ————————————————————————————————————	0	150	FEET
50	25	0	50	METE
				MEIE

## Sample Locations in Remedial Unit RU018 Confirmation Unit CU176

Figure: 4-7

EXBIBIT NO . DOE/OR/21548-874 MGL

LGB 12/19/00

	Table 4 - 8 S	summary of CU17	7	
CU 177 COC Ra-226 Ra-226 Th-236 U-236 Reference Figure:	X   Cr	CLEANUP STAI  EACH 100m² < CRI  LOCATION DESCR	ASED FOR UNREST  10 / 21 / 9  NDARD X SURFACE  ITERIA? X YES  IPTION: This CU is local of the MSA work zone.	SUBSURFACE NO
WALKOVER SURVEY INFO	11000 cpm FI (not shielded)	NAL SURVEY(S) BELOW 1.5 X BACKGROUND ? 16/98	XYES	□NO
CONFIRMATION SAMPLIF TOTAL # OF SAMPLE LOCATIONS:  TOTAL # OF UTILITY SAMPLES:	30	HOTSI	LARA? X YES POTS? YES UIRED? YES	MO X NO
ORISE ACTION ALARA COMMITTEE ACTION	- None			
CU SUMMARY DATA	0.06 4.60	1.26	5 6.2	0 0
Ra-226       30         Ra-228       30         Total Radium       30         U-238       30         NOTE: Radiological contaminan	0.96 - 1.60 0.60 - 1.70 1.76 - 2.92 1.27 - 2.06 ts are listed in pCi/g.	1.26 1.25 2.51 1.58	5 6.2 5 6.2 .30 120	0 0 0 0 0 0



SC-17315-S

SC-17316-S

SC-17701-S

\$C-17317-S

\$C-17702-S

SC-17318-S

\$C-17705-\$ \$C-17703-\$

SC-17319-S

SC-17706-S

\$C-17704-S

\$C-17709-S

\$C-17707-S

SC-17801-S

\$C-17710-S

\$C-17708-S

SC-17713-S

\$C-17711-\$ \$C-17804-\$

\$C-17714-\$

\$C-17717-S

\$C-17715-S \$C-17807-S

\$C-17718-\$ \$C-17716-\$

\$C-17719-S \$C-17810-S

SC-17720-S

SC-17813-S

FEET METERS Sample Locations in Remedial Unit RU018 Confirmation Unit CU177

Figure: 4-8

EXHIBIT NO DOE/OR/21548-874 ORIGINATOR DRAWN BY-LGB MGL 12/19/00

1	T	able 4 - 9	Summar	y of CU178	3		•	
CU COC	Ra-226	RU 18 C As Cr Pb TI PAH PCB TNT	<u> </u>	CLEANUP STAN ACH 100m² < CRIT CCATION DESCRI	10 / IDARD X SI IERIA? X YI IPTION: This C	21 / 98 URFACE [ ES [ CU is located	SUBSU	
WALKOVER SURY BACKGROUND: DATE(S) S	4200 (shielded)	ATION cpm 10/16/98		EY(S) BELOW ACKGROUND ?	XY	ES [	NO	
CONFIRMATION S TOTAL # OF SAMPLE LOCATION TOTAL # OF UTILITY SAMPLES:	s: <u>2</u>	0 AD	DITIONAL EXC	AVERAGES < AI HOTSI AVATION REQU	-отs?Y	'ES [ 'ES [	X NO	
	. ACTION - No.							
CU SUMMARY DA	\TA							
Ra-226 Ra-228 Total Radium U-238	29 29 29 29	0.80 - 1.46 0.59 - 1.63 1.53 - 2.89 1.23 - 3.08		1.11 1.3 2.41 1.66	5 5 5 30	6.2 6.2 6.2 120	0 0 0	0 0 0 0

\$C-17319-S



SC-17801-S

\$C-17321-S

SC-17802-S

SC-17803-C

SC-17804-S

\$C-17803-S

SC-17805-S

SC-17806-C

\$C-17807-S

SC-17320-S

\$C-17808-S

\$C-17810-S

\$C-17809-S

SC-17811-S

SC-17813-S

\$C-17812-C

SC-17812-S

SC-17814-S

SC-17816-S

SC-17815-S

\$C-17817-S

SC-17818-C

\$C-17819-S . \$C-17818-S

SC-17820-S

SC-17821-S

SC-17822-S

Sample Locations in Remedial Unit RU018 FEET Confirmation Unit CU178 Figure: 4-9 METERS REPORT NO. EXHIBIT NO . DOE/OR/21548-874 ORIGINATOR MGL LGB 12/19/00

,		Table 4	-10 S	ummary of CU17	79			
CU COC	179 Ra-226 Ra-228 Th-230 Th-232 U-238		As	CLEANUP STAN EACH 100m² < CRI LOCATION DESCRI	10 HDARD X TERIA? X IPTION: This	/ 30 / 98 SURFACE [ YES	SUBSU	JRFACE
WALKOVER SU BACKGROUND: DATE(S)	RVEY INFO 6000 (shielded) SCANNED:	RMATION cpm		AL SURVEY(S) BELOW 1.5 X BACKGROUND ?	X	YES [	NO	
TOTAL # OF SAMPLE LOCATION TOTAL # OF UTILITY SAMPLES	SAMPLE LOCATIONS: 30 HOTSPOTS? YES X NO							
ORI	GENERAL COMMENTS - All results are below ALARA.  ORISE ACTION - None  ALARA COMMITTEE ACTION - None							
CU SUMMARY	CU SUMMARY DATA							
Ra-226 Ra-228 Total Radium U-238 PCB	30 30 30 30 19	0.52 0.98 1.30 results < de	- 1.67 - 1.59 - 3.17 - 2.10 etection limit	1.28 1.16 2.44 1.65 N/A contaminants are listed in me	5 5 5 30 0.65	6.2 6.2 6.2 120 8	0 0 0 0	0 0 0 0



SC-17620-S

\$C-17717-\$

· SC-17901-S

\$C-17718-S

SC-17702-S

\$C-17906-S

SC-17903-S SC-17720-S

0117

\$C-17813-S

SC-17911-S

\$C-17908-S \$C-17912-S

SC-17909-S SC-17816-S

\$C-17916-5 \$C-17913-\$ \$C-17910-\$

\$C-17917-5 \$C-17914-S

\$C-17819-S

SC-17918-S

\$C-17915-\$

\$C-17919-S \$C-18301-S

SC-17920-S

SC-18305-S

150	76 	o 	150	FEET
<b>50</b>	25	0	50	METERS

Sample	Locations	in	Remedial	Unit	RU018
	Confirma	tio	n Unit CU	179	

Figure: 4-10

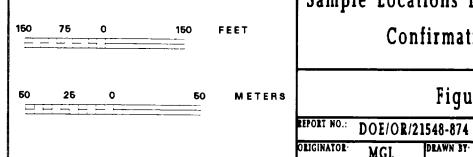
REPORT NO . EXHIBIT NO . DOE/OR/21548-874

DRAWN BY MGL DATE LGB 12/19/00

·	Table 4 - 11 S	Summary of CU1	B0			
CU 180 COC Ra-22 Ra-22 Th-23 Th-23 U-23	28 X Cr	DATE RELE  CLEANUP STAI  EACH 100m² < CRI LOCATION DESCR  west border of	7 NDARD X TERIA? X IPTION: This	/ 3 / 00 SURFACE YES CU is locate	SUBSI	URFACE
WALKOVER SURVEY IN	FORMATION					
BACKGROUND: 4,800 - 10,000 cpm FINAL SURVEY(S) BELOW (shielded) (unshielded) 1.5 X BACKGROUND? X YES NO  DATE(S) SCANNED: 10/26/98 6/22/00						
CONFIRMATION SAMPL	ING INFORMATION					
TOTAL # OF SAMPLE LOCATIONS:  TOTAL # OF UTILITY SAMPLES.	0 ADDITI S - All results are below ALARA.	AVERAGES < A HOTS ONAL EXCAVATION REQU	POTS?	YES YES	X NO	
GENERAL COMMENT	All leading the bolow ries in the					
	ORISE ACTION - None  ALARA COMMITTEE ACTION - None					
CU SUMMARY DATA						
Ra-226 29	0.43 - 1.66	1.25	5	6.2	0	0
Ra-228 29	0.55 - 1.53	1.17	5	6.2	0	0
Total Radium 29	0.98 - 2.91	2.42	5	6.2	0	0
U-238 32	1.18 - 22.30	2.42	·30	120	0	0
PCB 4	results < detection limit	N/A	0.65	8	0	0
NOTE: Radiological contamina	nts are listed in pCi/g. Chemical	I contaminants are listed in m	g/Kg			



SC-17616-S SC-17522-S \$C-17617-\$ \$C-17523-\$ \$C-18001-\$ SC-17618-S \$C-17524-\$ \$C-18002-\$ \$C-17619-\$ \$C-18012-S \$C-18006-S \$C-18004-S \$C-18019-5 \$C-18014-S \$C-18008-S SC-18020-S SC-18015-S SC-17906-S SC-18021-S SC-18016-S SC-18022-S SC-17911-S SC-18023-S



Sample Locations in Remedial Unit RU018

Confirmation Unit CU180

Figure: 4-11

LGB

12/19/00

SC-17916-S

lable 4 - 12 Summary of CU181				
CU 181 RU 18 DATE RELEASED FOR UNRESTRICTED USE:  COC Ra-226 X As				
WALKOVER SURVEY INFORMATION  BACKGROUND:				
CONFIRMATION SAMPLING INFORMATION  TOTAL # OF AVERAGES < ALARA? X YES NO  SAMPLE LOCATIONS: 32  HOTSPOTS? YES X NO				
TOTAL # OF UTILITY SAMPLES:  O ADDITIONAL EXCAVATION REQUIRED? YES X NO  GENERAL COMMENTS - Nitroaromatics were identified in soil beneath the cell haul ramp, thus TNT was added as a COC in this area and two biased sample locations were added to confirm removal of the nitroaromatics Excavation of the cell haul ramp yielded cinders, thus the area was resampled for radiological COCs and PAHs.				
ORISE ACTION - None  ALARA COMMITTEE ACTION - None				
CU SUMMARY DATA				
Ra-226 13 0.29 - 1.82 1.25 5 6.2 0 0				
Ra-228     13     0.38 - 1.51     0.98     5     6.2     0     0       Total Radium     13     0.67 - 3.10     2.23     5     6.2     0     0       Th-230     5     0.71 - 1.38     0.96     5     6.2     0     0       U-238     30     1.05 - 3.90     1.95     30     120     0     0				
Lead         2         12.8 - 13.0         12.9         240         450         0         0           PAH         3         0 - 0.03         0.01         0.44         5.6         0         0           TNT         4         0.11 - 0.76         0.29         14         140         0         0           NOTE. Radiological contaminants are listed in pCi/g. Chemical contaminants are listed in mg/kg. Nitro-aromatics are listed in ug/g.         Nitro-aromatics are listed in ug/g.				

SC-18018-S \$C-18019-S \$C-18102-C SC-18020-S SC-18103-S SC-18021-S SC-18104-S SC-18022-S SC-18108-S SC-18105-S SC-18023-S SC-18109-S SC-18106-S SC-18114-C SC-18110-S SC-18201-S SC-18114-S SC-18111-S SC-18114-S-RS SC-18115-S SC-18205-S SC-18115-S-RS SC-18116-S SC-18115-3-85 SC-18119-S SC-18209-5 SC-18120-S SC-18122-S \$C-18213-5 SC-18123-S SC-18126-S SC-18124-S SC-18501-S Sample Locations in Remedial Unit RU018 150 FEET Confirmation Unit CU181 Figure: 4-12 METERS REPORT NO : EXHIBIT NO DOE/OR/21548-874 ORIGINATOR DRAWN BY-DATE MGL LGB 1/16/01

		Table 4 - 13	Summary of CU1	82			
coc	Ra-226 Ra-228 Th-230 Th-232 U-238 Tigure:	RU 18  X As   X Cr   Pb	CLEANUP STA  EACH 100m² < CR  LOCATION DESCI  of the MSA wo	NDARD X STITERIA? X Y	/ 3 / 98 SURFACE [ TES [	SUBSU	RFACE
WALKOVER SURVE	Y INFOR	MATION					
BACKGROUND:	4800	cpm	FINAL SURVEY(S) BELOW		-		ļ
	(shielded)	<del></del>	1.5 X BACKGROUND ?	X	res [	NO	Ī
DATE(S) SCA	ANNED: _	10/26/98					
TOTAL # OF AVERAGES < ALARA? X YES NO  SAMPLE LOCATIONS: 30 HOTSPOTS? YES X NO  TOTAL # OF UTILITY SAMPLES: 0 ADDITIONAL EXCAVATION REQUIRED? YES X NO  GENERAL COMMENTS - MSAX-3 was originally identified as a possible lead contamination area based on the structure that occupied the location. Further characterization efforts to confirm or deny lead contamination were not possible until the structure was removed, which occurred after the Sampling Plan was developed. All characterization results were less than ALARA, so Pb was removed as a COC within this area. (Reference IOCs from Melissa Lutz - 10/6/98 and 5/6/99.) SC-18217-S was offset in order to represent MSAX-2.  ALARA COMMITTEE ACTION - None							
CU SUMMARY DAT	Α				<u>.</u>		
							C
Ra-226	30	0.92 - 1.65	0.81	5	6.2	0	0
Ra-228	30	0.59 - 1.55	1.19	5 5	6.2	0	0
Total Radium	30	1.86 - 2.98 1.34 - 3.59	2.49 1.73	30	120	0	Q
U-238	30	1.34 - 3.39	12.55	240	450	0	0
Lead PCB	4	0	N/A	0.65	8	0	0
TAIT		0 11 - 0 24	0.28	14	140	0	0
NOTE: Padialogical cor	taminants a	are listed in pCi/g. Chem	nical contaminants are listed in r	ng/kg. Nitro-aro	matics are liste	d in ug/g.	



#### SC-18023-S

SC-17916-S

\$C-18201-\$

\$C-18202-\$

\$C-18202-\$

\$C-18203-\$

\$C-18203-\$

\$C-18204-\$

\$C-18204-\$

\$C-18204-\$

\$C-18204-\$

\$C-18204-\$

\$C-18207-\$

\$C-18208-\$

\$C-18203-\$

\$C-18203-\$

\$C-18204-\$

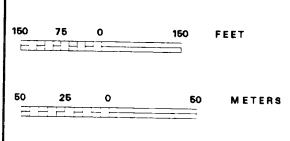
\$C-18203-\$

\$C-18204-\$

\$C-18203-\$

\$C-182

\$C1800-5



# Sample Locations in Remedial Unit RU018 Confirmation Unit CU182

Figure: 4-13

REPORT NO: DOE/OR/21548-874 EXHIBIT NO:
ORIGINATOR: MGL PRAWN BY: LGB PATE 12/19/00

	Table 4 - 14 Summary of CU183							
CU 183 RU 18 DATE RELEASED FOR UNRESTRICTED USE:  COC Ra-226 X As								
WALKOVER SURVEY INFORMATION  BACKGROUND: 6000 cpm FINAL SURVEY(S) BELOW  (shielded) 1.5 X BACKGROUND? X YES NO  DATE(S) SCANNED: 10/22/98								
DATE(S)	SCANNED.	102230						
CONFIRMATION TOTAL # OF SAMPLE LOCAT TOTAL # OF UTILITY SAMPLE	IONS :	32 AE	AV	ERAGES < AL HOTSP ATION REQUI	отs? <u> </u>	res [ res [	NO X NO	
GENERAL	. COMMENTS -	All results are below AL	ARA.					
ORISE ACTION - None  ALARA COMMITTEE ACTION - None								
CU SUMMARY	DATA							
Ra-226 Ra-228 Total Radium U-238	32 32 32 32	0.94 - 1.66 0.55 - 1.62 1.53 - 3.02 1.27 - 3.59	1.3 1.3 2.4	16 10	5 5 5 . 30	6.2 6.2 6.2 120	0 0 0	0 0 0
PCB	2	results < detection			0.65 /kg.	8	0	0



SC-17819-S

SC-17820-S

SC-17919-S

SC-18301-S

SC-17821-S

\$C-17920-S \$C-18302-S \$C-17822-S

SC-18309-S

\$C-18305-S

\$C-18310-\$

SC-18304-S

\$C-18315-S

\$C-18311-\$ \$C-18307-\$

\$C-18316-S

\$C-18312-\$

\$C-18308-S

SC-18321-S SC-18317-S SC-18313-S

\$C-18322-S \$C-18318-S

\$C-18314-S

SC-18323-S

\$C-18319-S

\$C-18324-S \$C-18320-S

SC-18325-S

SC-18326-S

METERS

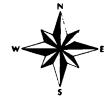
Sample Locations in Remedial Unit RU018 Confirmation Unit CU183

Figure: 4-14

REPORT NO.: EXHIBIT NO . DOE/OR/21548-874

DRAWN BY: MGL LGB 12/19/00

1	Table 4 - 15	Summary of CU184	
COC R	84 RU 18  a-226 X As	CLEANUP STANDA EACH 100m² < CRITE	ON: This CU is located along the east
	000 - 12,000 cpm ed) (not shielded)	FINAL SURVEY(S) BELOW 1.5 X BACKGROUND? 8 10/22/98	X YES NO
TOTAL # OF SAMPLE LOCATIONS : TOTAL # OF UTILITY SAMPLES :	30  O ADI  MENTS - All results are below ALA	AVERAGES < ALA HOTSPO DITIONAL EXCAVATION REQUIR RA.	TS? YES X NO
ORISE AC	CTION - None		
CU SUMMARY DATA			
Ra-228 Total Radium U-238	30 1.01 - 1.90 30 0.48 - 1.59 30 1.57 - 3.36 30 1.32 - 3.59	1.35 1.07 2.42 1.85	5     6.2     0     0       5     6.2     0     0       5     6.2     0     0       30     120     0     0



						w <del>- </del>	\$ 5
		SC-18321-	•				
	EXARMENT .	<b>J</b> 0 10011					
			\$C-18322-S				
	- \$\$\$(1500)	18401-S		SC-1832	3-\$		
		sc-	18402-S		SC-18	324-5	
	\$\frac{1}{2}\frac{1}{2		SC-184	103-S		CC 18	ing c
		SC-18408-S		c	C-18404-S	\$C-18	1325-3
	\$C-18413-S		SC-18409-S	<b>9</b>			\$C-18326-S
	SC-18	3414-S				SC-18405-S	
	SC-18419-S			SC-18410-	S		\$C-18406-S
		\$C-18	415-S		SC-1841	1-S	
	\$C-18420-S		SC-1841	6-S		SC-184	12-S
		SC-18421-S		sc-	18417-S		
			SC-18422-S		c	C-18418-S	
			S.C.	C-18423-S	'نو	C.10410-2	
			) (	P-10473-2			
					SC-18424-	S	
		·	Sample 1	Locati	ions in	Remed	ial Unit RU018
50	75 0 150 F	EET		Conf	irmatio	n Unit	CU184
<b>5</b> 0	25 0 50	METERS			Figure	e: 4-15	
	- <del></del>				548-874	EXHIBIT NO ·	
			originator M	GL	DRAWN BY-	LGB	DATE 12/19/00

	Table 4 - 16 Summary of CU185						
CU 185 RU 18 DATE RELEASED FOR UNRESTRICTED USE:  COC Ra-226 X As Cr CLEANUP STANDARD X SURFACE SUBSURFACE  Th-230 Pb X EACH 100m² < CRITERIA? X YES NO  Th-232 TI LOCATION DESCRIPTION: This CU is located along the southwest edge of the MSA work zone.  PCB Reference Figure: 4 - 16 TNT X							
WALKOVER SUR	VEY INFORM	MATION					
BACKGROUND: 4,800 - 14,564 cpm FINAL SURVEY(S) BELOW (shielded) (not shielded) 1.5 X BACKGROUND? X YES NO  DATE(S) SCANNED: 3/3/98 3/30/98 10/26/98 1/28/99							
CONFIRMATION	SAMPLING I	NFORMATION					
TOTAL # OF SAMPLE LOCATION		27	AVERAGES < A		res [	X NO	
TOTAL # OF UTILITY SAMPLES .		O ADDITIO	NAL EXCAVATION REQU	JIRED?Y	res [	X NO	
GENERAL CO	OMMENTS - A	ll results are below ALARA.					
ORISE		one					
	ALARA COMMITTEE ACTION - None						
CU SUMMARY DA	ATA						
					6.0	0	0
Ra-226	27	0.96 - 1.9	1.36	5 5	6.2 6.2	0	0
Ra-228	27	0.56 - 1.47	1.16	5	6.2		<del>- 0</del>
Total Radium	27	1.52 - 3.36	2.52 1.89	30	120	0	0
U-238	27	1.26 - 5.10 12.8	12.8	240	450	0	0
Lead	$\frac{1}{3}$	0.15	0.15	14	140	0	0
TNT	S S	o listed in pCi/a. Chemical	contaminants are listed in m		natics are liste	d in ug/g.	

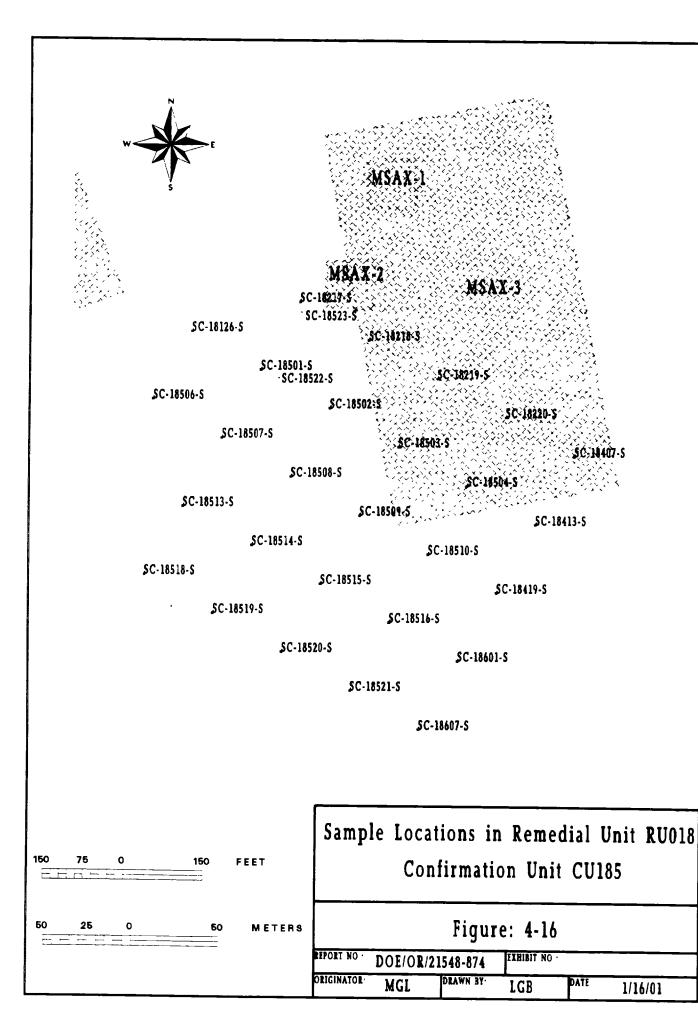


	Table 4 - 17	Summary of CU186		
CU 186  COC Ra-226  Ra-226  Th-236  U-236  Reference Figure:	X   Cr     Pb	DATE RELEASED FOR UNRESTRICTED USE:  4 / 6 / 98  CLEANUP STANDARD X SURFACE SUBSURFACE EACH 100m² < CRITERIA? X YES NO  LOCATION DESCRIPTION: This CU is located along the southeast edge of the MSA work zone.		
WALKOVER SURVEY INF BACKGROUND: 10,000 DATE(S) SCANNED	<u>0</u> cpm	FINAL SURVEY(S) BELOW  1.5 X BACKGROUND ? X YES NO		
CONFIRMATION SAMPLING TOTAL # OF SAMPLE LOCATIONS: TOTAL # OF UTILITY SAMPLES:	28	AVERAGES < ALARA? X YES NO  HOTSPOTS? YES X NO  DDITIONAL EXCAVATION REQUIRED? YES X NO		
GENERAL COMMENTS - All results are below ALARA.  ORISE ACTION - None  ALARA COMMITTEE ACTION - None				
CU SUMMARY DATA	0.79 - 1.90	1.30 5 6.2 0 0		
Ra-226   28     Ra-228   28	0.56 - 1.47 1.46 - 3.36 1.27 - 2.75	1.19     5     6.2     0     0       2.49     5     6.2     0     0       1.83     30     120     0     0		



SC-18419-S

SC-18420-S

\$C-18601-S \$C-18421-S

SC-18602-5

SC-18422-S

\$C-18607-S

\$C-18603-S

SC-18423-S

SC-18608-S

SC-18604-S

SC-18424-S

SC-18613-S

\$C-18609-S \$C-18605-S

\$C-18614-S \$C-18610-S \$C-18606-S

\$C-18615-S

SC-18611-S

SC-18616-S SC-18612-S

SC-18617-S

\$C-18618-S

SC-18619-S

\$C-18620-S

SC-18621-S

SC-18622-S

150	76	0	150	FEET
50	25 3 H H	0	50	METERS

Sample	Locations	in	Remedial	Unit	RU018
	Confirma	tio	n Unit CU	1186	

Figure: 4-17

REPORT NO : DOE/OR/21548-874 EXHIBIT NO .

ORIGINATOR: DRAWN BY: DATE MGL LGB 12/19/00

	Table 4 - 18	Summary of CU187				
CU 187 COC Ra-2 Ra-2 Th-2 U-2 Reference Figure	228 X Cr	CLEANUP STANDARI EACH 100m² < CRITERIA	YES NO  N: This CU is located at the southern			
WALKOVER SURVEY IN BACKGROUND: 10,0		FINAL SURVEY(S) BELOW 1.5 X BACKGROUND ?	X YES NO			
DATE(S) SCANNI	ED: <u>3/14/98</u>					
CONFIRMATION SAMPLE TOTAL # OF SAMPLE LOCATIONS:  TOTAL # OF UTILITY SAMPLES:		AVERAGES < ALARA HOTSPOTS DITIONAL EXCAVATION REQUIRED	? YES X NO			
GENERAL COMMENTS - All results are below ALARA.  ORISE ACTION - None  ALARA COMMITTEE ACTION - None						
CU SUMMARY DATA						
Ra-226       28         Ra-228       28         Total Radium       28         U-238       28         NOTE: Radiological contamir	0.96 - 1.60 0.59 - 1.40 1.77 - 3.00 1.32 - 4.05	1.28 1.19 2.48 2.14	5     6.2     0     0       5     6.2     0     0       5     6.2     0     0       30     120     0     0			



SC-18817-S

SC-18818-S

\$C-18701-S

SC-18819-S

\$C-18707-C

SC-18702-S

\$C-18820-S

\$C-18708-S

SC-18703-S

SC-18821-S

SC-18709-S

SC-18704-S

SC-18621-S

SC-18710-S

SC-18705-S

SC-18706-C SC-18622-S

SC-18716-S

SC-18720-C

SC-18711-S

SC-18712-C SC-18706-S

SC-18717-S

SC-18712-S

SC-18721-S

SC-18718-S

SC-18722-S

SC-18726-S

150 76 0 150 FEET

50 25 0 50 METERS

Sample Locations in Remedial Unit RU018

Confirmation Unit CU187

Figure: 4-18

REPORT NO.: DOE/OR/21548-874 EXHIBIT NO

ORIGINATOR MGL DRAWN BY: LGB PATE 12/19/00

;	Table 4 - 19	Summary of CU1	88			
CU 188  COC Ra-22  Ra-22  Th-23  Th-23  U-23  Reference Figure	8 X Cr		NDARD X SETTERIA? X Y	/ 3 / 98 SURFACE TES CU is located	SUBSI	URFACE
WALKOVER SURVEY INF BACKGROUND: 10,000 DATE(S) SCANNED		FINAL SURVEY(S) BELOW 1.5 X BACKGROUND ? 1/98	X	ÆS [	NO	
CONFIRMATION SAMPLING INFORMATION  TOTAL # OF						
ALARA COMMITTEE ACTION - None						
CU SUMMARY DATA						
Ra-226   29     Ra-228   29     Total Radium   29     U-238   29     ROTE: Radiological contaminar	0.73 - 1.69 0.66 - 1.47 1.76 - 3.16 1.21 - 5.14	1.16 1.23 2.34 2.12	5 5 5 30	6.2 6.2 6.2 120	0 0 0	0 0 0

SC-18518-S

SC-18519-S

SC-18520-S

SC-18803-S

SC-18521-S

\$C-18804-S

SC-18807-S SC-18805-S

\$C-18808-\$ \$C-18613-\$

SC-18809-S SC-18614-S

\$C-18816-\$ \$C-18810-\$

\$C-18615-\$

SC-18817-S

\$C-18811-S

SC-18616-S

SC-18818-S

\$C-18812-S

SC-18617-S

SC-18701-S

\$C-18819-S

\$C-18820-\$ \$C-18619-\$

SC-18821-S

SC-18621-S

150	75	0	150	FEET
<b>50</b>	26	0	50	METERS

Sample Locations in Remedial Unit RU018 Confirmation Unit CU188

Figure: 4-19

EXHIBIT NO . DOE/OR/21548-874

ORIGINATOR DRAWN BY: MGL LGB 12/19/00

Table 4 - 20 Summary of CU396								
CU 396 RU 18 DATE RELEASED FOR UNRESTRICTED USE:  COC Ra-226 X As								
WALKOVER SURVEY INFORMATION								
BACKGROUND: approx. 4500 - 6400 cpm FINAL SURVEY(S) BELOW								
1.5 X BACKGROUND ? X YES NO								
DATE(S) SCANNED: 3/9/00								
CONFIRMATION SAMPLING INFORMATION								
TOTAL # OF AVERAGES < ALARA? X YES NO								
SAMPLE LOCATIONS . 12								
HOTSPOTS? X YES NO								
TOTAL # OF								
UTILITY SAMPLES: 12 ADDITIONAL EXCAVATION REQUIRED? X YES NO								
GENERAL COMMENTS - One hotspot was identified at SC-39609-U (Th-230). The area was excavated and resampled. Results are								
less than criteria. One Th-230 result > ALARA, but < criteria.								
ORISE ACTION - None								
ORISE ACTION - None  ALARA COMMITTEE ACTION - None								
ALARA COMMITTEE ACTION - None								
ALARA COMMITTEE ACTION - None  CU SUMMARY DATA								
ALARA COMMITTEE ACTION - None  CU SUMMARY DATA  Ra-226 12 0.53 - 0.92 0.73 5 6.2 0 0								
ALARA COMMITTEE ACTION - None  CU SUMMARY DATA  Ra-226 12 0.53 - 0.92 0.73 5 6.2 0 0 Ra-228 12 0.95 - 1.63 1.14 5 6.2 0 0 Ra-228 12 0.95 - 1.63 1.14 5 6.2 0 0								
ALARA COMMITTEE ACTION - None  CU SUMMARY DATA  Ra-226 12 0.53 - 0.92 0.73 5 6.2 0 0 Ra-228 12 0.95 - 1.63 1.14 5 6.2 0 0 Total Radium 12 1.57 - 2.44 1.87 5 6.2 0 0								
ALARA COMMITTEE ACTION - None    Ra-226								
Ra-226 12 0.53 - 0.92 0.73 5 6.2 0 0 Ra-228 12 0.95 - 1.63 1.14 5 6.2 0 0 Total Radium 12 1.57 - 2.44 1.87 5 6.2 0 0 Th-230 12 0.99 - 5.97 1.75 5 6.2 1 0								



SC-39601-U

SC-39607-U

SC-39602-U

SC-39608-U

SC-39603-U

SC-39609-U SC-39609-U-RS

SC-39604-U

SC-39610-U

\$C-39611-U \$C-39605-U

SC-39606-U

SC-39612-U

150	76	0	150	FEET
50	25	0	50	METERS

# Sample Locations in Remedial Unit RU018 Confirmation Unit CU396

Figure: 4-20

REPORT NO. DOE/OR/21548-874 EXHIBIT NO

ORIGINATOR MGL DRAWN BY: LGB DATE 12/19/00

## 5. DATA EVALUATION

WP-437 final analytical data were evaluated to determine whether data quality objectives (DQOs) developed for the Weldon Spring Site Remedial Action Project (WSSRAP) were met and to ensure that acceptable overall data quality results were generated from these remedial activities. The data were evaluated in accordance with the *Project Management Contractor Quality Assurance Program* (Ref. 4) and the *Environmental Quality Assurance Project Plan* (Ref. 5). The data evaluation process was completed by data verification, data review, data validation, and data management activities as stated in the *Chemical Plant Area Cleanup Area Attainment Confirmation Plan* (Ref. 3).

## 5.1 Data Verification

Data verification was conducted in accordance with ES&H 4.9.1, Environmental Monitoring Data Verification, to ensure that documentation and data were reported in compliance with established reporting requirements and standard operating procedures (SOPs), and to ensure that all analyses were performed by the laboratories. All analytical results received from the laboratory were reviewed to verify that samples were properly handled according to WSSRAP protocol. The following factors were reviewed and evaluated: sample identification, chain of custody, holding times, sample preservation requirements, sample analysis request forms, data reviews, laboratory tracking, data reporting requirements, and the database transfer.

## 5.2 Data Review

Data packages were reviewed to ensure that final data were properly identified, analyzed, and reported, and that they met data quality requirements (DQRs). The data were also reviewed to check for inconsistencies with the field quality control (QC) samples. Final analytical results were also compared with the preliminary results to identify any changes in data.

During confirmation of WP-437 areas, which included RU018, soil samples were obtained in accordance with the details provided in the Confirmation Sampling Plan Details for the Disposal Cell Facility (WP-437) (Ref. 2). This plan specifies that quality control samples were to be taken at a frequency of 1 per 20 samples or 5%. The samples included duplicates, field replicates, secondary duplicates, matrix spikes/matrix spike duplicates, and equipment blanks. Since the 5% requirement was based on all WP-437 confirmation sampling, the quality control data will be discussed in a separate report entitled WP-437 Confirmation Quality Control Results Report, which will be prepared later.

## 5.3 Data Validation

Data validation was performed on 10% of all analytical data generated from the confirmation sampling activities. Data validation was conducted in accordance with ES&H 4.9.2, Environmental Monitoring Data Validation. Note that the validation of 10% of the

data was based on all confirmation data collected for WP-437, and not 10% of each work zone. The percentage of confirmation data validated will be discussed in the WP-437 Confirmation Quality Control Results Report.

## 6. SUMMARY OF CLOSURE REPORT FINDINGS

The MSA work zone portion of WP-437 consisted of the 20 confirmation units within RU018. Summary information regarding the remedial activities is presented in Section 4 of this report.

#### 6.1 Data Evaluation

After remediation was completed, preliminary results were used to complete disposition forms in accordance with ES&H 1.2.1, Soil Remediation Disposition Process. Based on the preliminary results, each CU was released when disposition forms were reviewed and signed by authorized project personnel.

# 6.2 Summary of WP-437 Confirmation Results

Table 6-1 provides a summary of the total number of samples collected and analyzed for each contaminant during remedial activities in RU018. The number of results and the minimum, maximum, and average concentrations are also provided for each contaminant. The table was generated using data sets compiled from all samples that represented soils left in place.

Table 6-1 Summary Totals for RU018

CONTAMINANT	NO. OF SAMPLES	CONCENTRATION RANGE	AVERAGE CONCENTRATION	SURFACE ALARA	SURFACE CRITERIA	RESULTS >ALARA
Ra-226 (pCi/g)	370	0.43 - 1.90	1.29	5.00	6.20	0
Ra-228 (pCi/g)	370	0.48 - 1.75	1.19	5.00	6.20	0
Total Radium (pCi/g)	370	0.98 - 3.36	2.48	5.00	6.20	0
Th-230 (pCi/g)	17	0.71 - 5.97	1.52	5.00	6.20	1
Th-232 (pCi/g)	12	0.97-1.67	1.17	5.00	6.20	0
U-238 (pCi/g)	415	0.86 - 22.30	1.86	30.00	120.00	0
PAH (mg/kg)	3	0.00 - 0.03	0.01	0.44	5.60	0
Pb (mg/kg)	4	11.00 - 13.40	12.55	240	450	0
PCB (mg/kg)	37	0.00 - 1.90	0.05	0.65	8.00	1
TNT (mg/kg)	8	0.11 - 0.76	0.21	14	140	0_

Analytical results generated from the remedial activities indicated that the average concentrations for each COC were below the ALARA goal. For each of the 20 CUs, COC averages were also below ALARA. All 100 m<sup>2</sup> averages were less than criteria.

# 6.3 Summary of Chemical Plant Confirmation Results

To meet the requirements of the ROD, more than 50% of the results for each parameter had to be less than the ALARA goal. Table 6-2 summarizes the cumulative results to date.

Table 6-2 Summary Totals for Confirmation

CONTAMINANT	NO. OF SAMPLES	MINIMUM CONCENTRATION	MAXIMUM CONCENTRATION	AVERAGE CONCENTRATION	RESULTS > ALARA
Arsenic (mg/kg)	875	0.48	34.10	7.43	0
Chromium (mg/kg)	1,286	3.80	41.60	14.10	Ö
Pb (mg/kg)	1,009	2.40	817.00	16.99	2
Thallium (mg/kg)	253	0.12	5.20	1.35	0
TNT (mg/kg)	85	0.00	34.00	0.86	1
PAH (mg/kg)	661	0.00	6.65	0.19	76
PCB (mg/kg)	1,485	0.00	6.00	0.04	21
Ra-226 (pCi/g)	2,584	0.33	9.43	1.33	3
Ra-228 (pCi/g)	2,393	0.30	6.60	1.25	2
Th-230 (pCi/g)	1,651	0.09	23.10	1.58	30
Th-232 (pCi/g)	1,870	0.31	6.77	1.30	2
U-238 (pCi/g)	4,000	0.39	228.00	3.70	46
Toluene (mg/kg)	4	0.00	3.40	0.85	0

NOTE This table contains summary results from cumulative confirmation including WP-253, WP-399, WP-420, WP-458, WP-461, WP-471, WP-437 (RU017), and WP-437 (RU018).

# 6.4 Comparison of Standard Deviations

This section compares the estimated standard deviations calculated following U. S. Environmental Protection Agency (EPA) guidelines with deviations calculated using confirmation results. Since no existing remediation data were available to calculate the standard deviation (sigma), the Chemical Plant Area Cleanup Area Attainment Confirmation Plan (Ref. 3) estimated sigma using the range (assuming the average concentration remaining after remediation would not exceed cleanup criteria) divided by six. To determine whether the specified level of precision was obtained, a comparison was made between the estimated sigma and the calculated sigma using the RU018 results.

The comparison indicated that the specified level of precision (a false positive = 0.05 and a false negative = 0.20) was obtained. With the exception of Th-230, all of the calculation sigmas were are less than the estimated sigmas, indicating that the minimum specified precision was met. Table 6-3 presents the estimated sigma and calculated sigmas for each COC.

Table 6-3 Comparison of Standard Deviations

COC	Estimated Sigma(a)	RU018 Sigma (b)	Cumulative Sigma (c)
Arsenic (mg/kg)	12.5	N/A	3.57
Chromium (mg/kg)	18.3	N/A	5.00
Lead (mg/kg)	75	1.06	30.46
Thallium (mg/kg	3.3	N/A	1.31
PAH (mg/kg)	0.93	0.02	0.55
PCB (mg/kg)	1.33	0.31	0.30
TNT (mg/kg)	23.3	0.22	4.07
Ra-226 (pCi/g)	1.03	0.23	0.36
Ra-228 (pCi/g)	1.03	0.27	0.35
Th-230 (pCi/g)	1.03	1.25	1.36
Th-232 (pCi/g)	1.03	0.18	0.37
U-238 (pCi/g)	20	1.18	8.64

(a) Sigma estimated in the Attainment Plan (Ref. 3).

(b) Sigma calculated using only the WP-437 (RU018) confirmation results.

(c) Sigma calculated using cumulative confirmation results (WP-253, WP-399, WP-458, WP-461, WP-471, WP-437 [RU017], and WP-437 [RU018]).

The RU018 calculated sigma and the cumulative sigma for Th-230 exceeded the estimated sigma. For the RU018 calculated sigma, this is a factor of few data points and one location approaching criteria with the remainder near background. For the cumulative sigma, this is a factor of hot spots left in place based upon subsurface criteria in previous CUs. The estimated standard deviation, recalculated for Th-230 using subsurface criteria, is 2.7. The cumulative sigma is less than the estimated subsurface sigma.

### 7. REFERENCES

- 1. U.S. Department of Energy. Record of Decision for Remedial Action at the Chemical Plant Area of the Weldon Spring Site. Rev. 0. DOE/OR/21548-376. Oak Ridge Field Office. St. Charles, MO. September 1993.
- 2. MK-Ferguson Company and Jacobs Engineering Group. Confirmation Sampling Plan Details for the Disposal Cell Facility (WP-437). Rev. 0. DOE/OR/21548-706. Prepared for the U.S. Department of Energy, Oak Ridge Operations Office. St. Charles, MO. January 1998.
- 3. MK-Ferguson Company and Jacobs Engineering Group. Chemical Plant Area Cleanup Attainment Confirmation Plan. Rev. 3. DOE/OR/21548-491. Prepared for the U.S. Department of Energy, Oak Ridge Operations Office. St. Charles, MO. December 1995.
- 4. MK-Ferguson Company and Jacobs Engineering Group. *Project Management Contractor Quality Assurance Program Implementation Plan*. Rev. 3. DOE/OR/21548-506. Prepared for the U.S. Department of Energy, Oak Ridge Operations Office. St. Charles, MO. November 2000.
- 5. MK-Ferguson Company and Jacobs Engineering Group. *Environmental Quality Assurance Project Plan.* Rev. 5. DOE/OR/21548-352. Prepared for the U.S. Department of Energy, Oak Ridge Operations Office. St. Charles, MO. November 2000.
- MK-Ferguson Company and Jacobs Engineering Group. Remedial Investigation for the Chemical Plant Area of the Weldon Spring Site. Rev. 0. 2 Vols. DOE/OR/21548-074. Prepared for the U.S. Department of Energy, Oak Ridge Field Office, Weldon Spring Site Remedial Action Project. St. Charles, MO. November 1992.
- 7. MK-Ferguson Company. MSA Work Zone Specifications. Rev. 8. Specification Document No. 3840-7-437-02301. Prepared for the U.S. Department of Energy Weldon Spring Site Remedial Action Project. St. Charles, MO. August 1996.
- 8. Oak Ridge Institute for Science and Education. Final Verification Survey Plan for the Chemical Plant Area Weldon Spring Site Remedial Action Project, Weldon Spring, Missouri Prepared by the Environmental Survey and Site Assessment Program, Energy/Environment Systems Division, for the U.S. Department of Energy. Weldon Spring, Missouri. December 7, 1995.

#### **PROCEDURES**

ES&H 1.2.1, Soil Remediation Disposition Process

ES&H 4.9.1, Environmental Monitoring Data Verification

ES&H 4.9.2, Environmental Monitoring Data Validation

#### **ACRONYMS**

ALARA as low as reasonably achievable

COC contaminant of concern
CPM counts per minute
CU confirmation unit
DOE Department of Energy
DQO Data Quality Objectives
DQR Data Quality Requirements

EQAPjP Environmental Quality Assurance Project Plan

MSA Materials Staging Area

NaI sodium iodide

ORISE Oak Ridge Institute for Science and Education

Pb lead

PAH polynuclear aromatic hydrocarbons

PCB polychlorinated biphenyl

PMC Project Management Contractor

QA quality assurance QC quality control

ROD Record of Decision for Remedial Action at the Chemical Plant Area of the

Weldon Spring Site

RU remedial unit

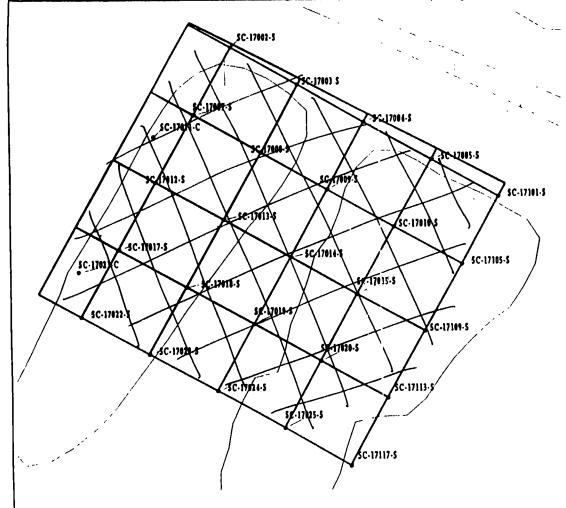
SOP standard operating procedure

TNT trinitrotoluene WP work package

WSSRAP Weldon Spring Site Remedial Action Project

APPENDIX A Final Walkover Forms

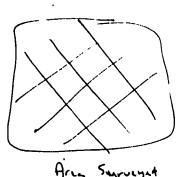
Radiation Survey Form WP 437, RU018CU170





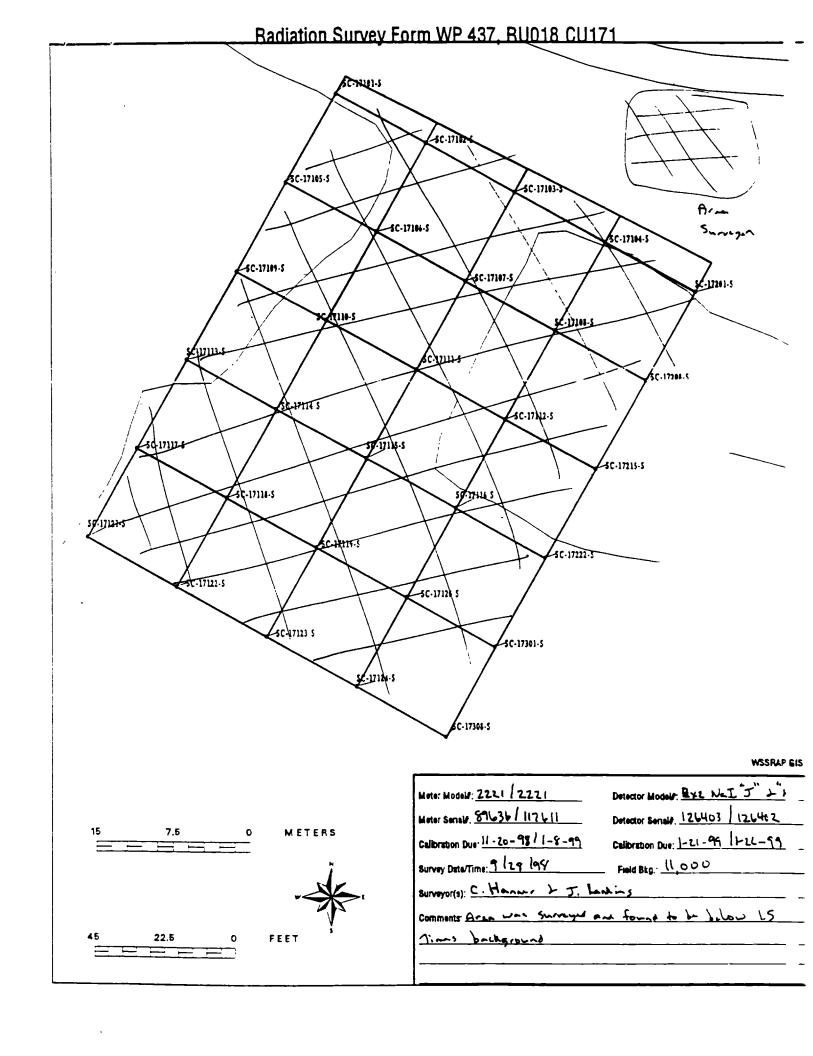






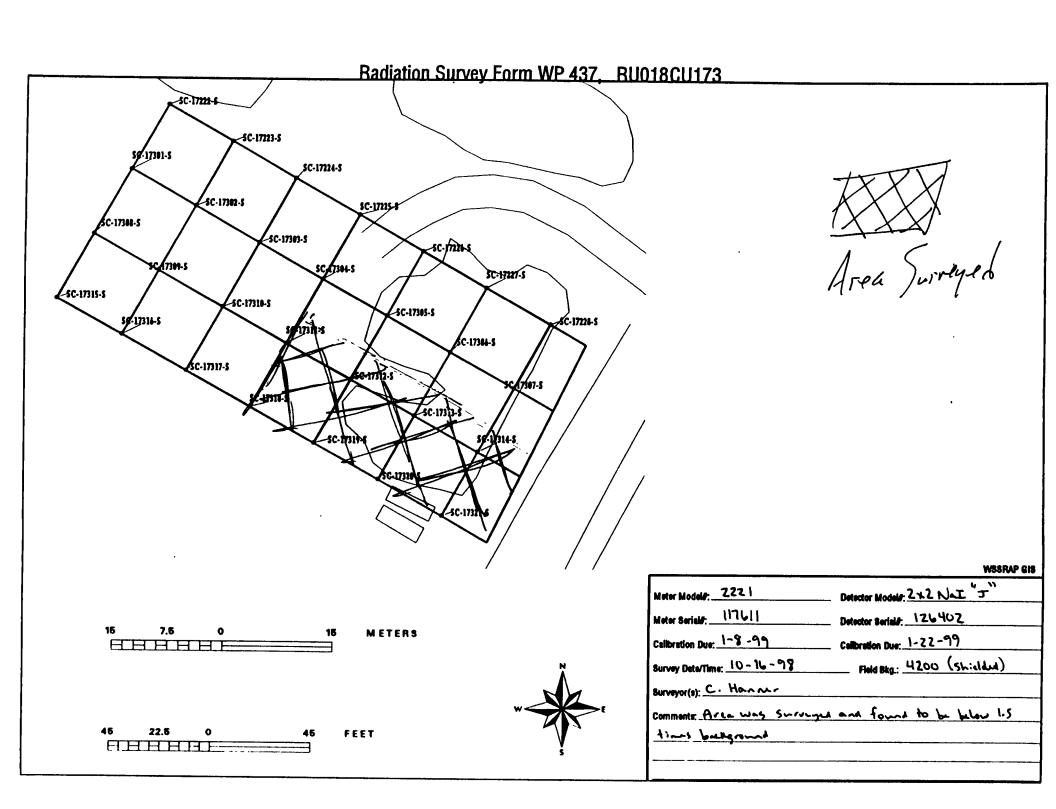
WSSRAP GIS

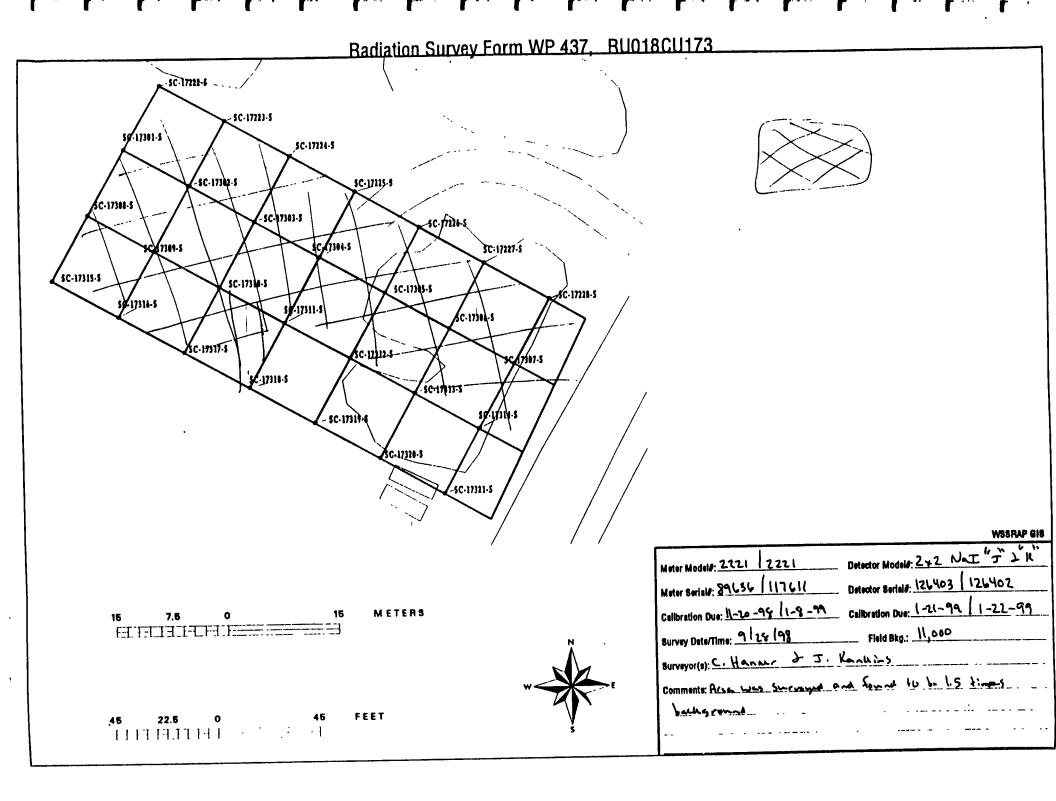
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Motor Boriald: 89636 / 117611	Detector Serial#: 126403 / 126402				
Calibration Due: 11-20-98 /1-8-19	Cellbration Due: 1-21-99 11-22-99				
	Field Bkg.: _ 11,000				
Burveyor(e): C. Hanner & J. Kenkins					
Comments: Acre was surround and found to be below 1.5					
times boundermand					

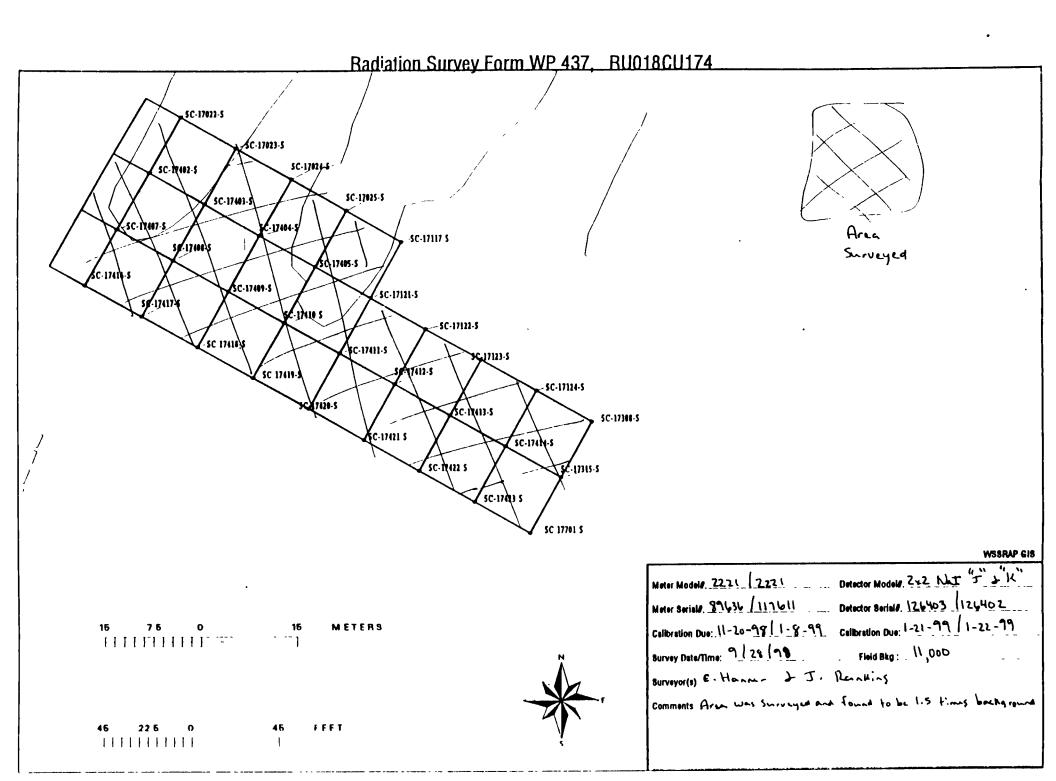


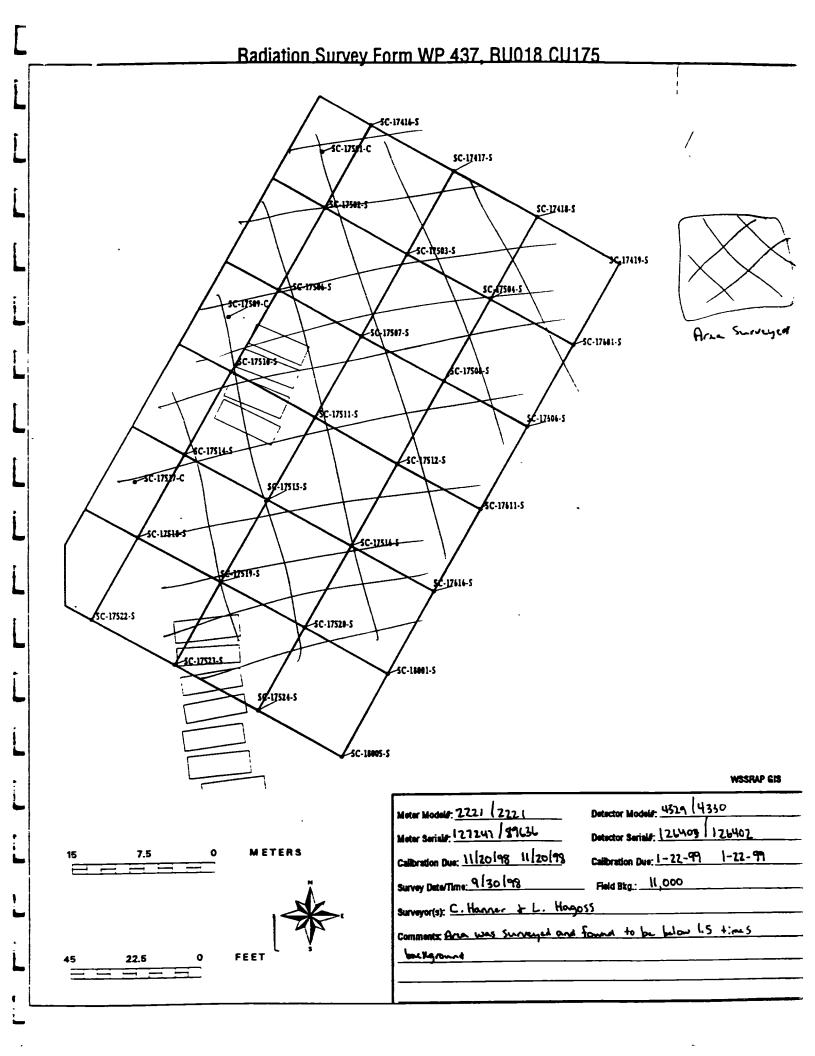
Radiation Survey Form WP 437, RU018CU172 SC-17101-3 -5C-17201 3C-1201-C 3C-17204.S -SC-17215 17205-5 SC-17216-S SC-17204-5 sc.mu -17217-5 SC-17212-5 -SC-17111-S SC-17718-S SC-17213-S -sc/1714.c &C-17224-5 SC-17211-S >5C-17220-5 SC-1722V -SC-1727-S METERS 7.5 FEET HHERTELL

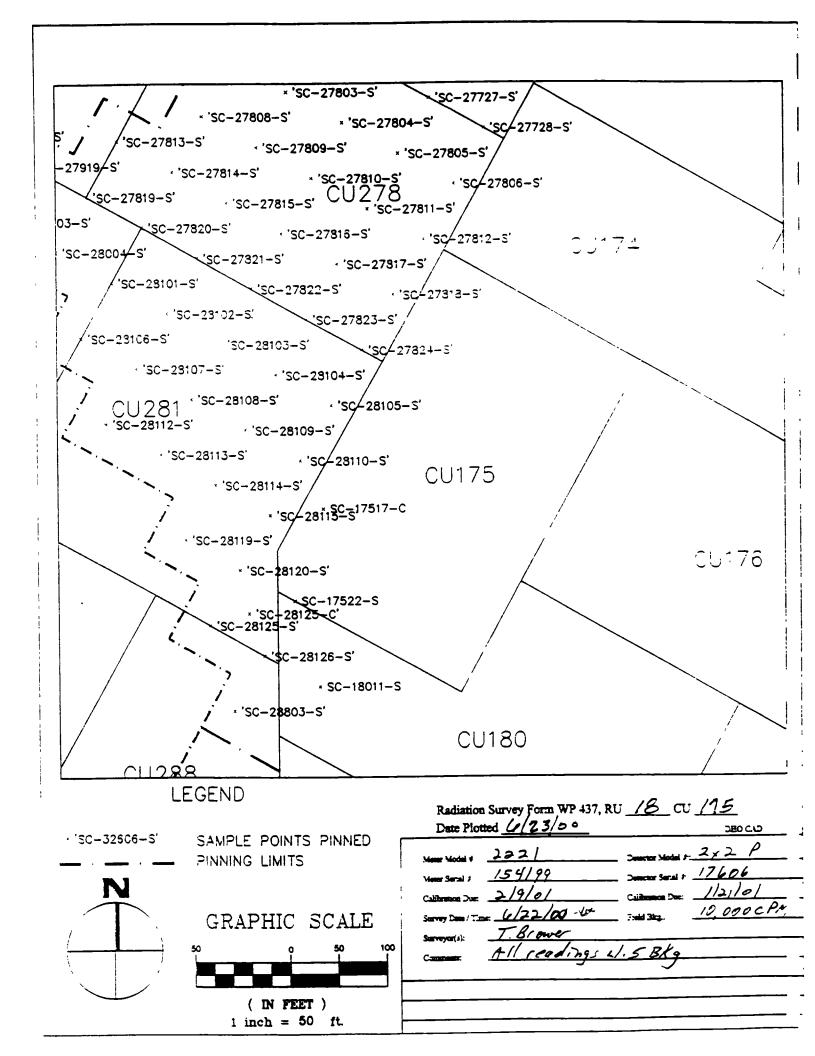
Meter Models: 2221 2221 Detector Models: 2x2 NaI 5 1K Meter Serials: 59636 (11761) Detector Serials: 126403 (126402 Calibration Due: 11-20-99 (1-9-99 Calibration Due: 1-21-99) 1-22-99 Survey Date/Time: 9/28 199 Field Bkg.: 11,000 Surveyor(s): C. Hanne & J. Rankins Comments: Area was surveyed and found to be below 15 Times



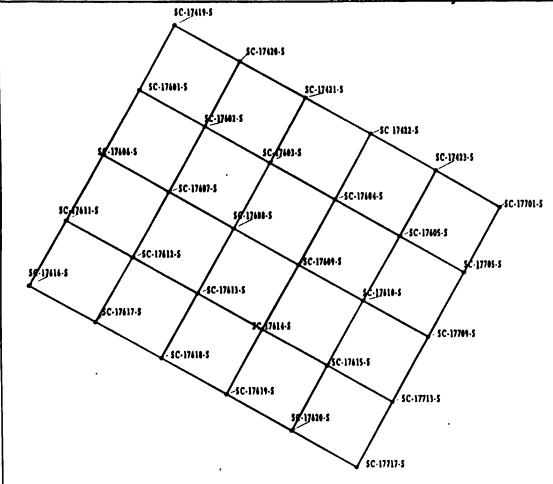








Radiation Survey Form WP 437, RU018CU176

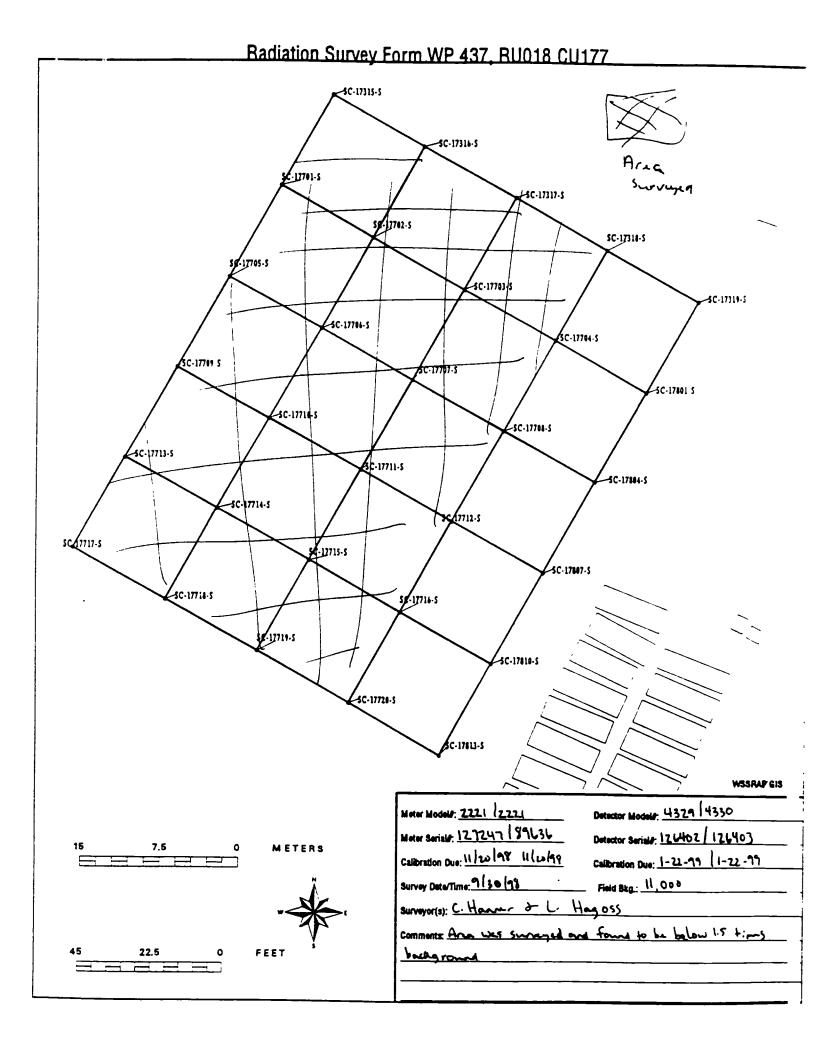


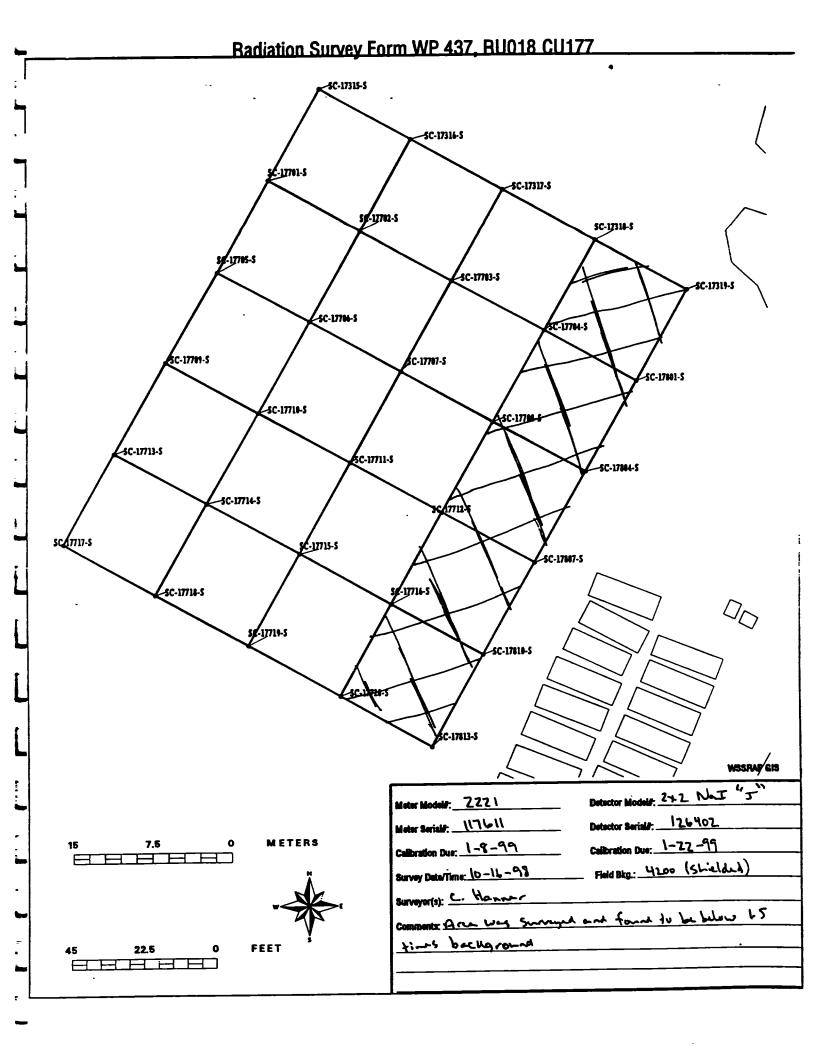
15 7.	6 O	15	METERS
ELELE	HITE		

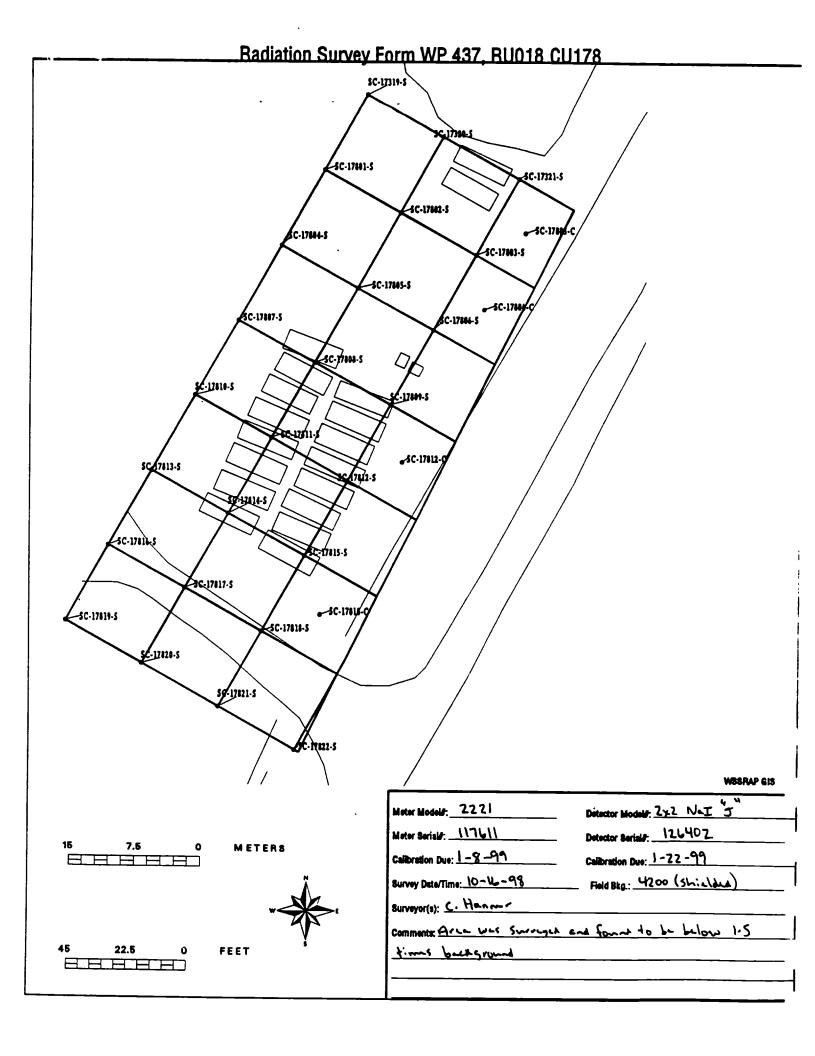


Meter Model#: 2221   2221	
Motor Socials, 127 247 189636	Detector Serials: 126405 126402
Cellbration Due: 11/20/99 11/20/99	Celibration Due: 1-22-99 11-21-99
Burvey Date/Time: 9 136 199	Fleid Bkg.: 11,000

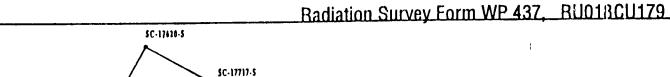
WSSRAP GIS

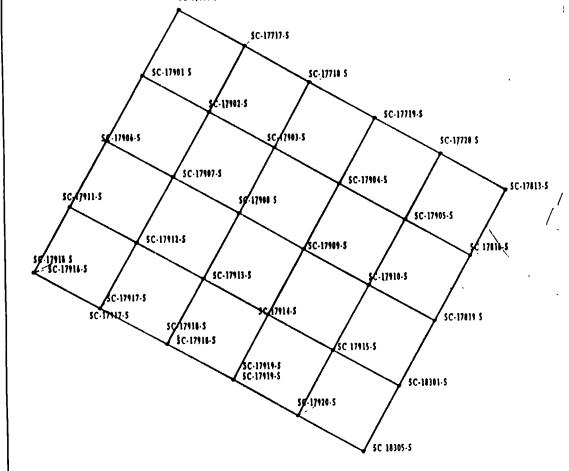






10/5/148





15 7.5 O 15 METERS

46 22.6 O 46 FEET



Meter Models: 2221 | 22,21

Meter Serials: 89636 | 117611 | Detector Serials: 126403 | 126402

Callbration Due: 11-20-98 | 1-8-99 | Callbration Due: 1-21-99 | 1-22-99

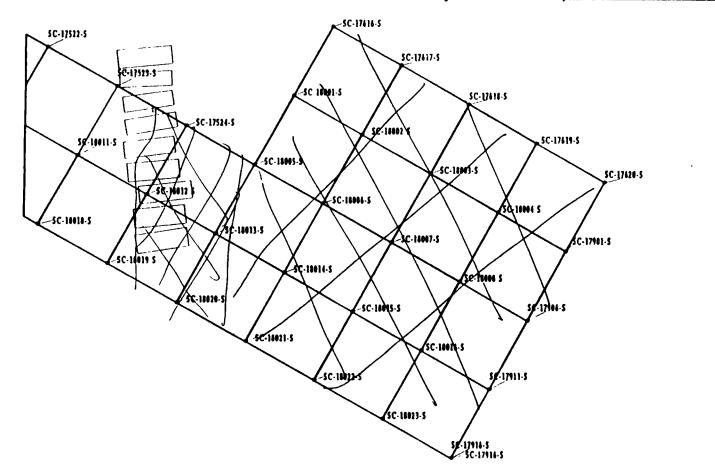
Survey Date/Time: 10-23-98 | Field Bkg.: 6000 (Shickold)

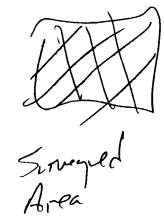
Surveyor(s): C. Hanner & J. Kankins

Comments: Area Surveyed and Found to be below 1.5 fins

backs round

Radiation Survey Form WP 437, RU018CU180





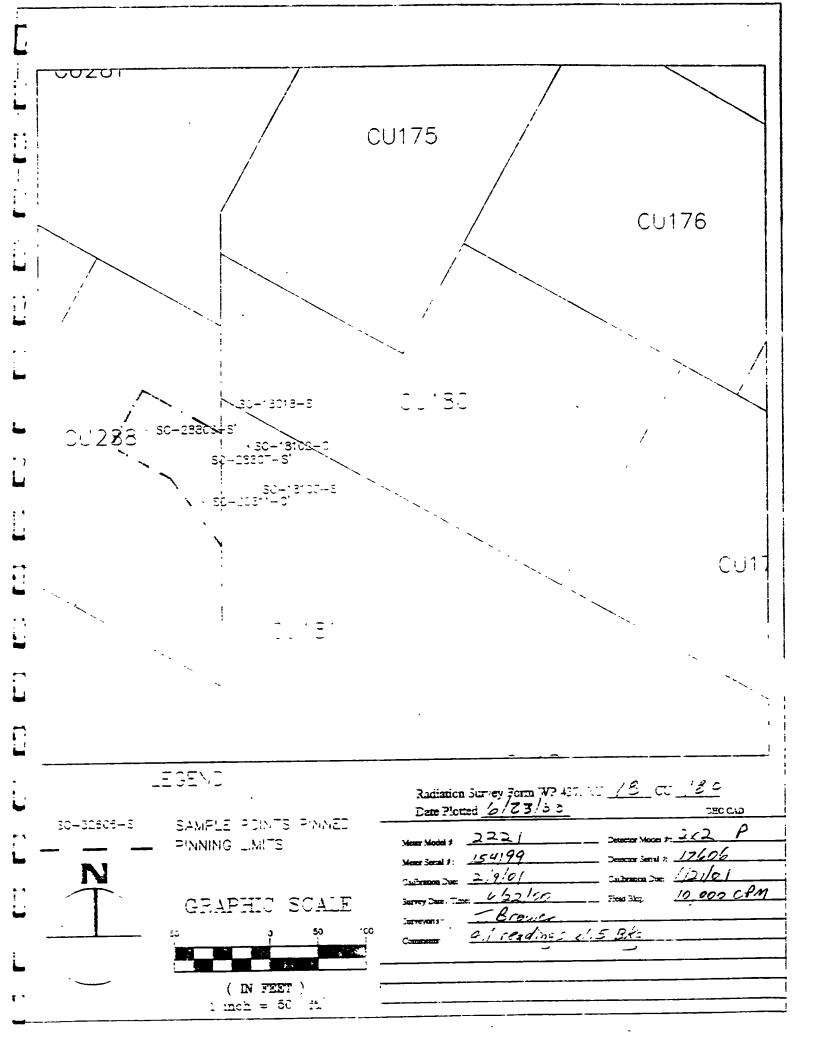
16	7 6	o	16	METERS
$\mathbf{H} T$	THE	14.1E		

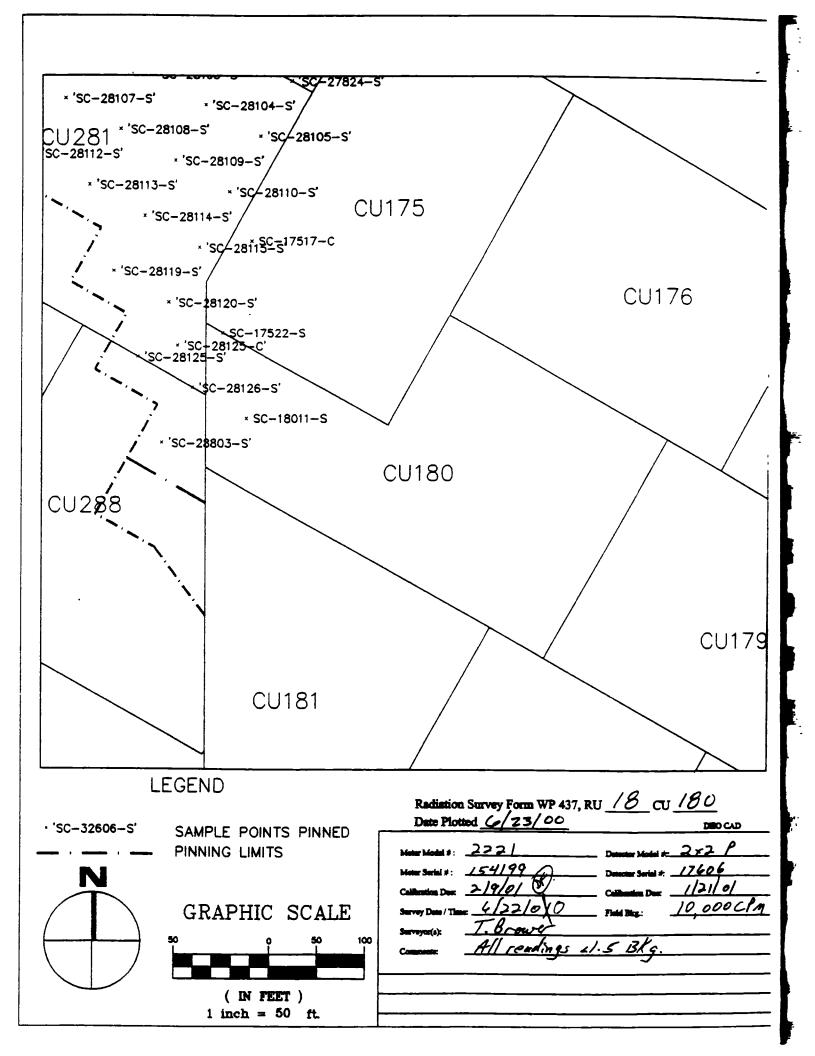


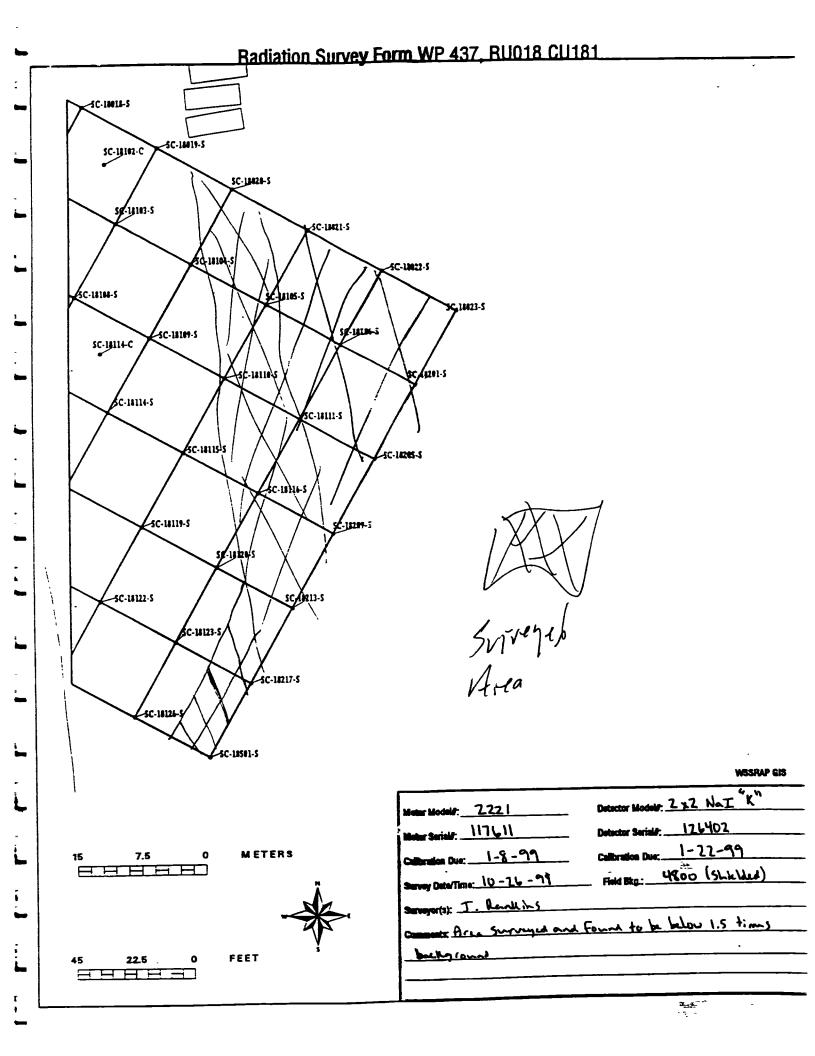
46				2	2	Б				0			46	,	FE	E T
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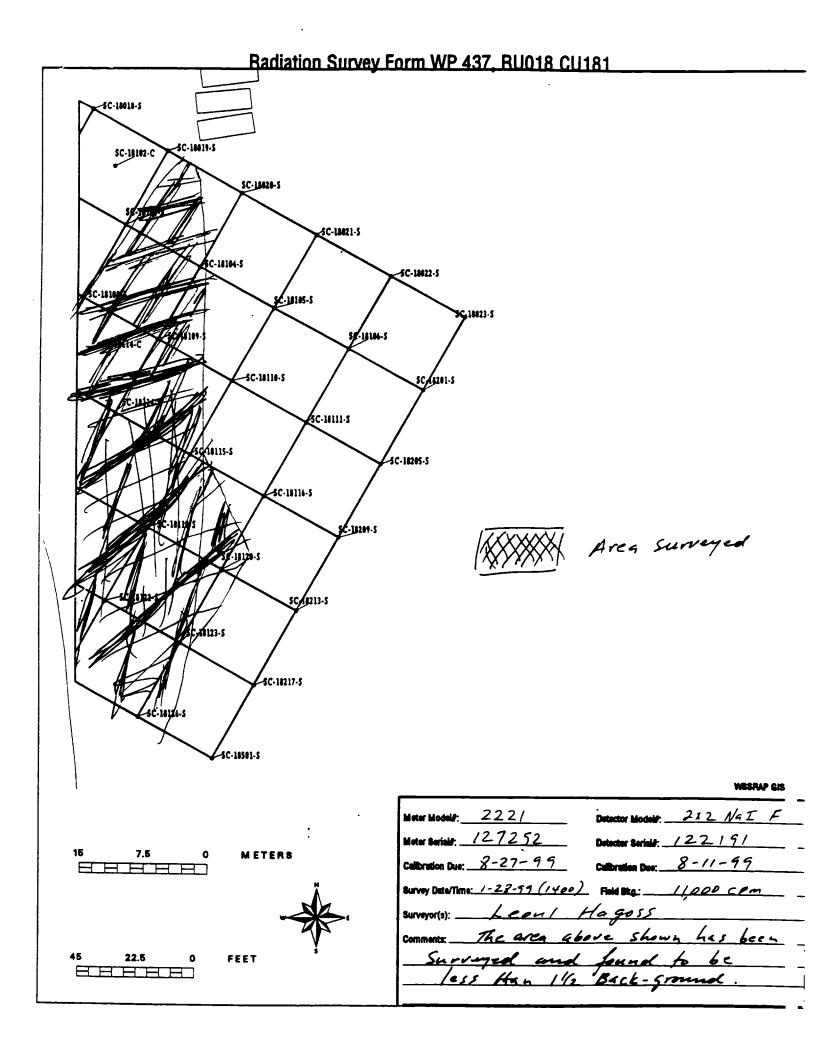
Meter Model#: 2221	Detector Model#: ZxZ NaT "K"
	Detector Serials: 126402
Calibration Due: 1-8-99	Calibration Due: 1-22-99
Survey Dete/Time: 10-26-99	Field Btg: 4800 (Shielded)
Surveyor(s) J. Rankins	
Comments Area Surveyed and S background	ound to be below 1.5 times
- m)	

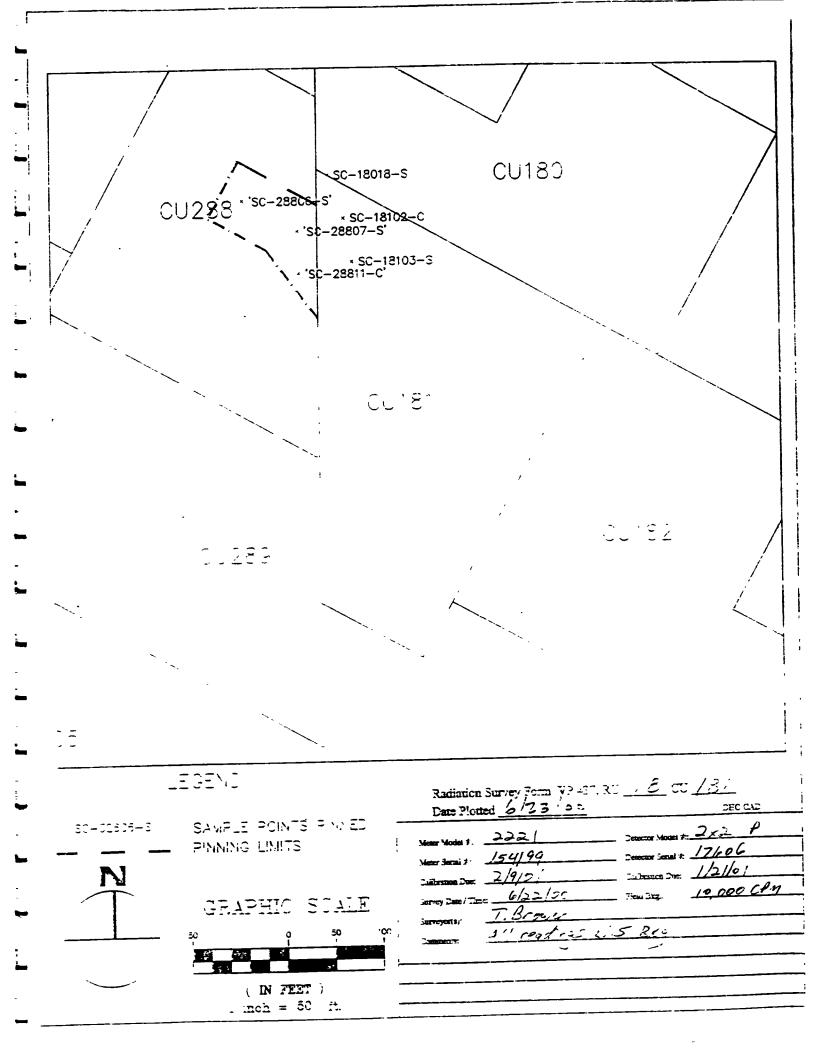
WSSRAP GIS

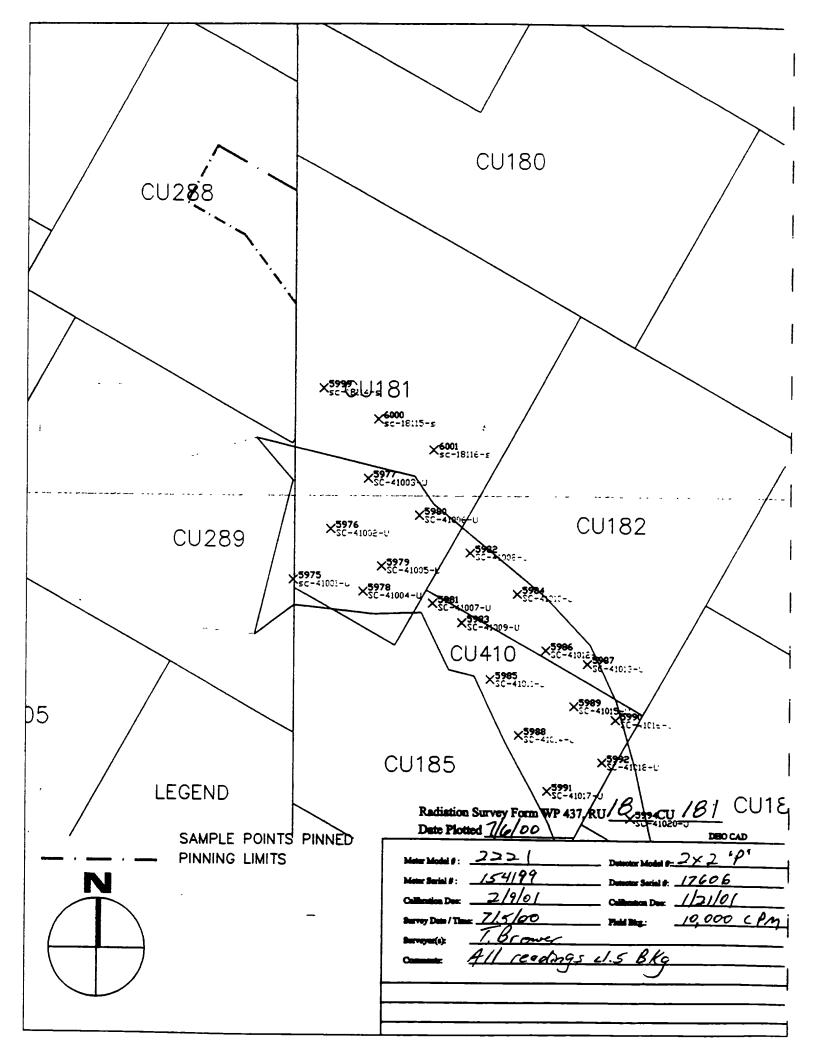


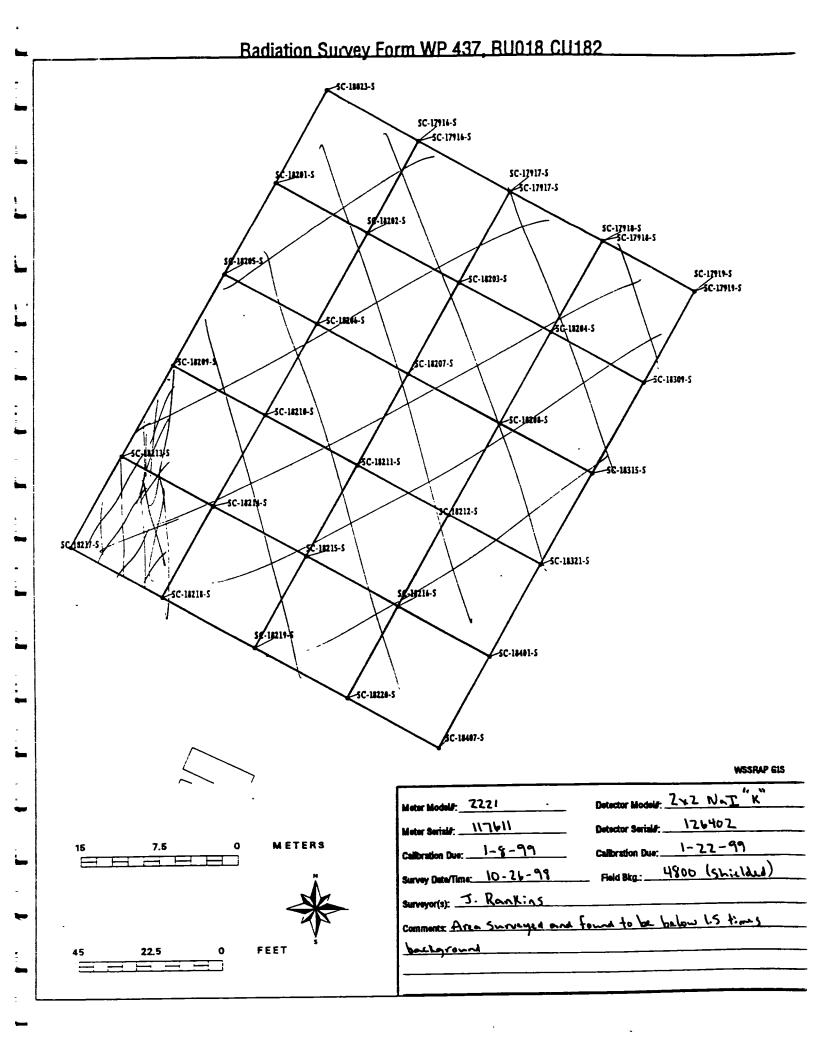


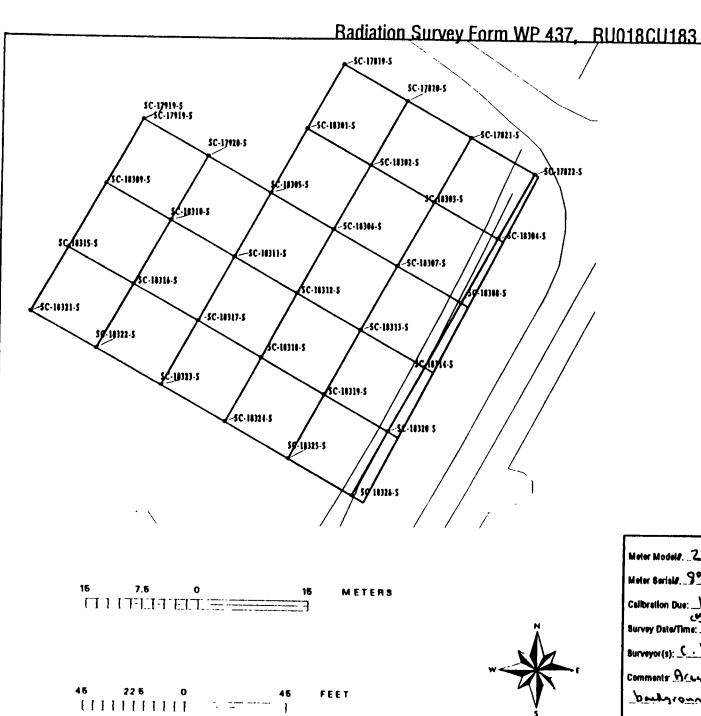












Motor Models. 2221 2221

Detector Models: Zx2 WaT K & J

Motor Serials. 99636 117611

Detector Serials. 126903 126402

Calibration Due: 11-20-98 11-8-97 Calibration Due: 1-21-99 11-22-99

Survey Date/Time: 362+1-10-22-98 Field Bkg: 6000 (Shielded)

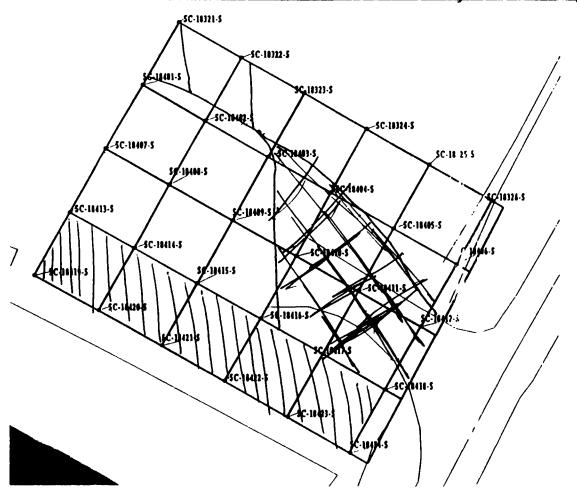
Surveyor(s): C. Hanner & J. Kankins

Comments Acea Surveyed and found to be below 1.5 +:ns

Danksround

Radiation Survey Form WP 437, RU018CU184 SC-18321-S -SC-18322 S SC\_11323-5 1041013 -SC-18324-S Surveyed SC-11107-5 SC-18325-S -SC-11403-S 59-13101-5 SC/18324 S (-11111-S SC-11413-5 -sc-ibus-s SC-18111-S -કલ્નામ્પ્રક -13115-5 -SC-18419-5 schine. -SC-18420-S SC-14116-S SC-Mul-2 SCAU17-S SC-18422-5 SCXIII S SC-18423-S Meter Model#: ZZZ1 | ZZZ1 | Detector Model#: Zx2 N~I "K" J " 5" Motor Serial#: 89636 11761 Detector Serial# 126403 126402 Calibration Due: 11-20-98 /1-8-99 Calibration Due: 1-21-99 11-22-99 METERS Survey Date/Time: 10-22-98 Fleid Bkg.: 6000 (Shielded) comments: Area Surveyed and found to be below 1.5 times FEET

Radiation Survey Form WP 437. RU018CU184



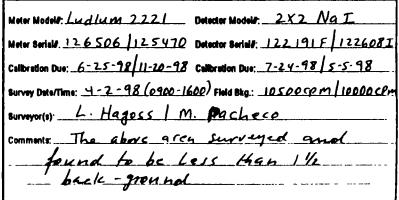


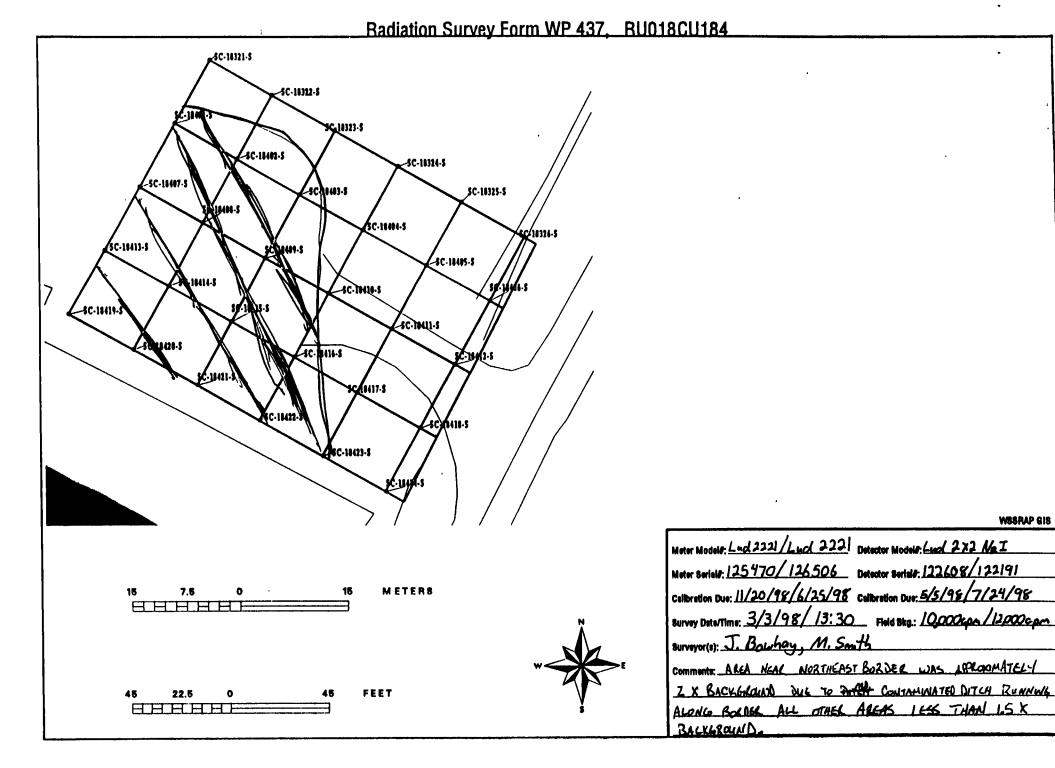
WSSRAP GIS

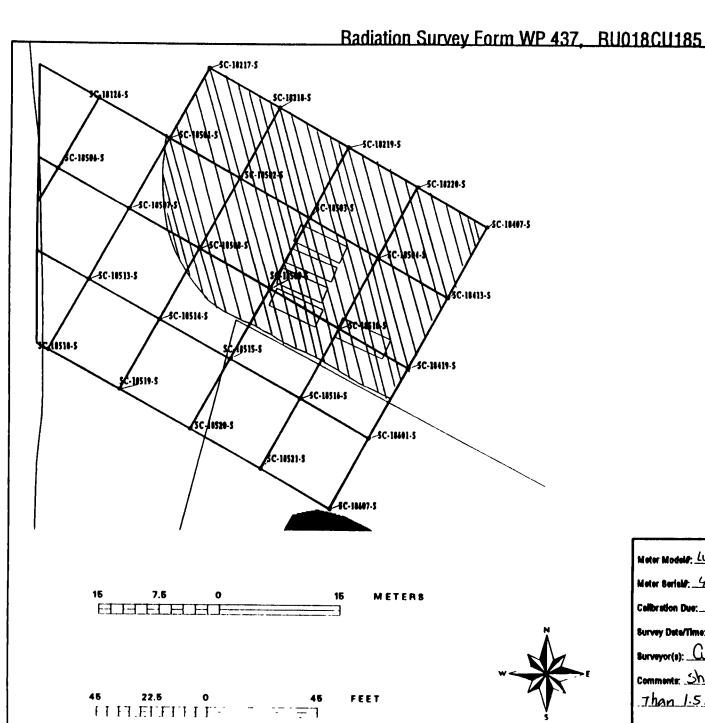
5 7.5 0 15 METERS



3 22.6 0 46 FEET







WSSRAP GIS

Motor Models: Ludlum Model 2220

Motor Models: Ludlum Model 44.10

Motor Beriels: 48400 / 48407

Detector Models: Ludlum Model 44.10

Motor Beriels: 126402 / 122912

Collibration Due: 12-11-98 | 11-20-98 | Calibration Due: 1-22-99 / 11-17-98

Survey Data/Time: MARCH 3 1998 / 1430 | Field Big: 14564 / 11349

Surveyor(s): Curt Prebe; T.W.II fong

Comments: Shaded area surveyor and fund to be 1555

Than 1-5 x background.

Radiation Survey Form WP 437. RU018CU185 -SC-10217 S 3C-11114-5 SC-1J118-S -5C-18219-5 SC-10220-S 3C-11101-5 5C-18407-5 METERS FEET 22.5



Meter Models: Ludlum 2220 Detector Models: 44-10

Meter Beriels: 126506/125470 Detector Beriels: 122191 /12260

Celibration Due: 6-25-98/5-5-98 Celibration Due: 7-24-98/11-20-5

Burvey Date/Time: 3-30-98/1000 Field Bkg.: 10,000

Burveyor(s): M. Pacheco / L. Hagass

Comments: Area surveyed was found to be < 1.5 x background.

MOSIV

Radiation Survey Form WP 437, RU018CU185 -SC-10217-S 3C,18124-5 SC-19218-5 SC-10501-5 -5C-18219-5 &C-18506-5 SC-18720-5 -SC-10507-S SC-10503-5 SC-18407-5 SC-18508-5 -SC-18501-S 3C-18513-5 SA IJSON S √sc-1413-s SC-18514-S -sc-usio-s C(1511-5 c/19515-5 SC-18419 S C-B211-2 3C-18518-S LSC-11520-S SC-18601-S SC-11521-S SC-18407-5 METERS 46 22.5 0 [7] [ ] [ ] [ ] ] ] -FEET



WSSRAP GIS

Motor Models: 2221	_ Detector Model/: ZxZ Na I K
Motor Sorial/, 11761	
Calibration Due. 1-8-99	Celibration Due: 1-22-99
Survey Date/Time: 10-26-98	Field Bkg.: 4900 (Shielded)
surveyor(s): J. Lankins	
Comments Area Surrayed and	found to be below 1.5 times
_ background	

Radiation Survey Form WP 437, RU018GU185 -SC-10217-S SC-19210-5 -5C-18219-5 SC-18502-5 -SC-10220-S SC-18583-S SC-18407-5 -SC-18588-S -SC-10504-S SC-18413-5 SC-10514-5 kalssu-s SC-18419-5 -SC-18516-S SC-40520-5 SC-18601-S SC-10521-5 METERS 7.5 FEET



W88RAP GI

Motor Models: 2221

Detector Models: NaT 2x2 "F"

Motor Benin's: 127252

Detector Serials: 122191

Calibration Due: 3-27-99

Calibration Due: 8-11-99

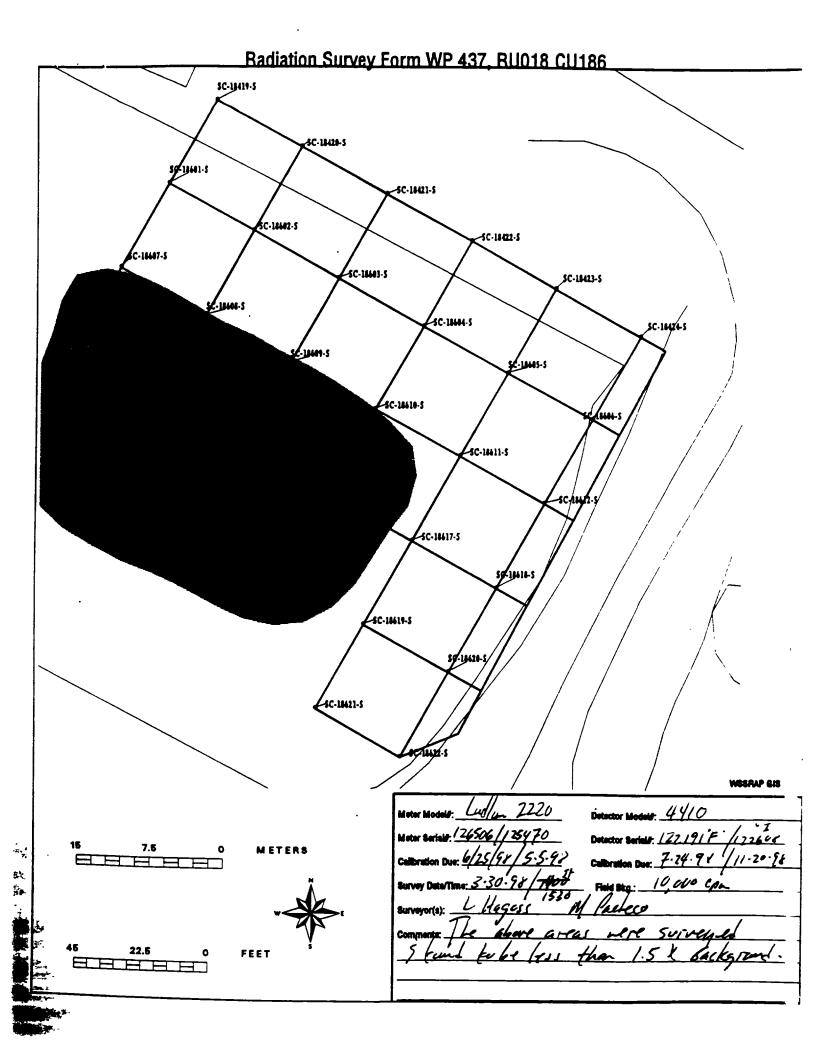
Burvey Dete/Time: 1-28-99 (1400)

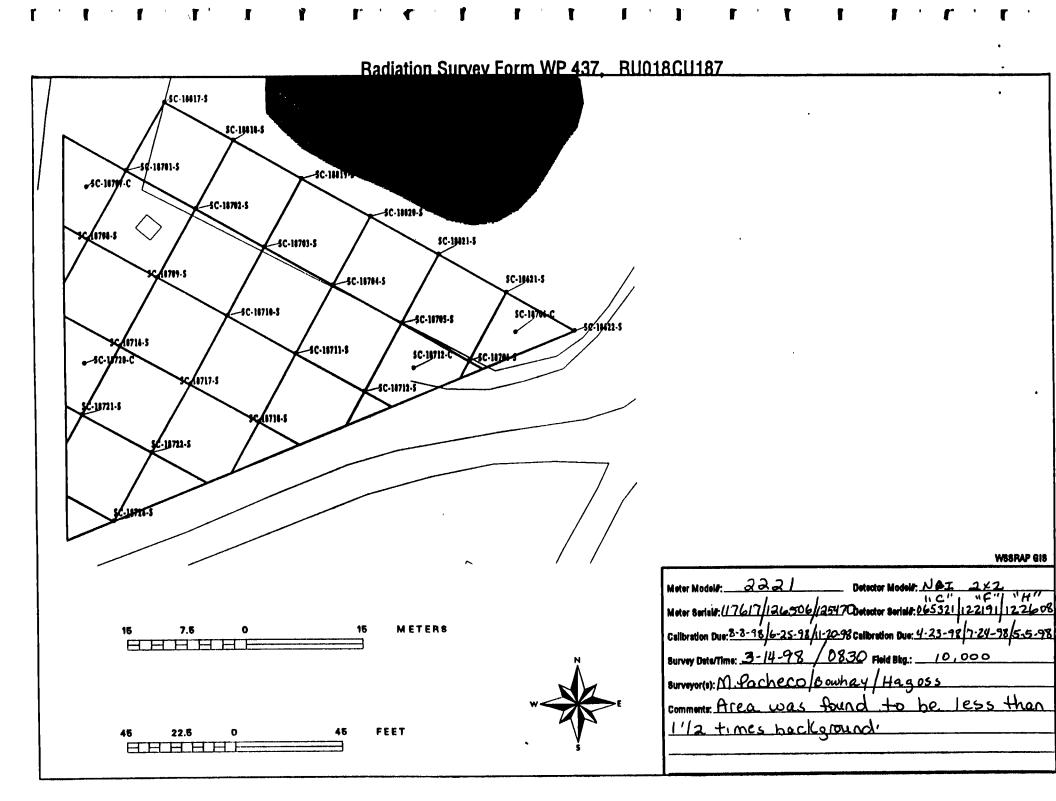
Field Bkg.: 14000 CPM

Burveyor(s): Leul Hagess

Comments: The area above shown has been surveyed and found to be

[Ess Kan 1/2 Back-Strand.]



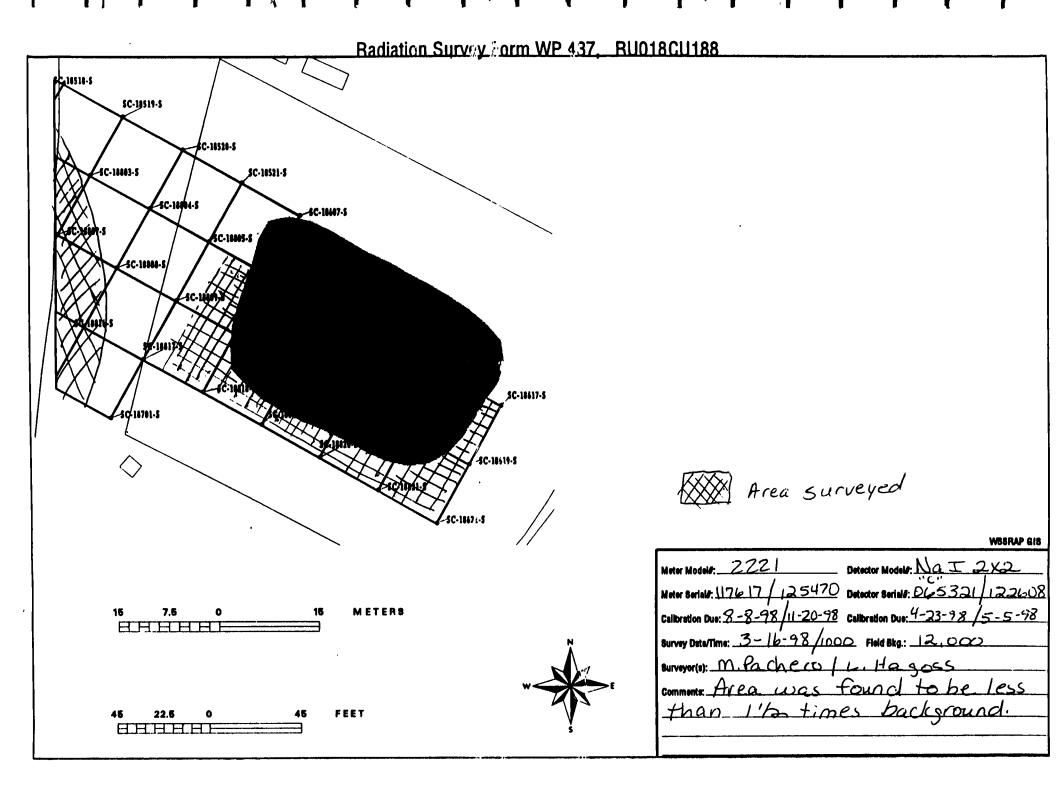


Radiation Survey Form WF: 437. RU018CU188 6Ca18518-5 SC-18519 5 C-18528-S SC-10521 S -કલ્નામાર્થે SC-18617-S SC-11111-5 -SC-18821-S SC-18871-5 METERS ининин=



Motor Models: Lucilum 2270 Dotoclor Models: Model 44-10 Motor Bortale 126506 125470 Detector Bortale 121191 122608 Celibration Due: 6-25-98 | 6-5-98 | Celibration Due: 7-24-98 | 11-20-98 Burvey Date/Time: 3-30-48 / 1000 Field Bkg: 10,000 Burryor(1). M. Pacheco / L. Hagoss commoner Area surveyed was found be < 1.5 x background.

FEET HT-[H]HHH - - -1



Continued From Page \_\_\_\_\_

Thursday 3-9-00"D	Ay Shift		
Ob30- SETTING UP CONT ThAT RCRA TEA	eal points for	today's field Ac	tivitiES. WAS 1114
that RCRA ten	4. HING FOR CA	eaftsmen a Labo	REKS will be h
TOR THE TIEST PI	ARTOT THE /	NO PHIMQ.	
0900- TRAINING DONE. W	locking at Ts	SA, CEll, + décon p	ind. Tim swifed:
Shell; No contamed	Etected. John	1 Observing Activi	ty At North west co
RAMP, EXCAUATING	surtace contain	mination off of	RAMP ENTRANCE /E
INTO THE CEIL YER	torming LXZ	walkours on the	LAAD.
1030- Erics observing	1 SA Activity	. Doil Removal in	PROGRESS ON EAST
perimeter. Sedim	ENT / Soil ARE'	Deing hauled from	the basin. Also
material on south s	ECTION OF THE BA	ASIN FOR SURVEYORS	to shoot A SAMPle ^
11130- Lunch	. <u>.</u>		
1235- CREW back to we			
1300- Erics performing	LXX SURVEY ON	U Southwest Corne	ROF TSA WASIN,
MALKOVER WAS foun	1d to DE 41.5"	bkg, (Okg: 7/00 cp.	a)
1330- AT decan pad, CA	1 SAD TRACKI	NOT DECON COMPLET	E / RACKS VI SUA
1530-At decan pad, CA- inspected, release corner of TSA by	d trom decon p	oad. <u>Fric</u> pertor	MING LXZ NORthw
WERE 115 The Fo	NEC FAMP OF C	EH, AREATO DE C.	EARED AND Dought o
1630 - At Northwest cor WERE < 1.5 bkg. Fr CONfirmation	Ed FRY WAS NO	titied + SAMPLERS	WERE Notified
1645-MIKES COLLECTING			
1700- ERICS # SECURIT	- Control of	)	
1700- FRICS GO SECURING	y coa mar po. a	7.1.1	·
The state with the state of the	-		
		<del></del>	· · · · · · · · · · · · · · · · · · ·
		5 //	
		· H.	
			/
			Continued on Page
5/ 01/	_	Read and Understood By	,
4211	3-9.08	466	5/11/10
Signed	Date	Signed	Date

#### Linda Broody

From:

David Fleming

Sent:

Friday, January 12, 2001 9:58 AM Linda Broody

To: Cc:

Melissa Lutz

Subject:

Estimated 2x2 Background for CU 396 Walkover

A walkover was performed in CU 396 on 3-9-00 by ES&H technician Jonathan Rankins using 2x2 "M" with the following parameters:

Meter Model # 2221

Detector Model # 2x2 Nal "M"

Meter Serial # 117617 Calibration Due: 10-13-00 Detector Serial # 130764 Calibration Due: 9-24-00

Survey Date: 3-9-00

Field Background: Not Recorded

This walkover was documented in WP-437 Logbook # 2000-0005 on the 3-7-00 day shift entry. It was recorded that all results were less than 1.5 times background, however the background count rate was not recorded. Also, no walkover survey form was generated for CU 396.

Site experience has shown that the background count rate in various areas for a given 2x2 Nal scintillation detector does not vary greatty so long as there are no significant sources of above-background gamma radiation present, and the local terrains are similar (i.e., similar soil topography, similar amounts of rock or standing water present, etc.). These conditions were true for walkovers performed around 3-9-00 in other CUs using 2x2 Nal "M" with the following background count rates, documented on walkover survey forms in our files:

CU 208 walkover performed on 3-1-00, bkg = 4,500 cpm
CU 349 walkover performed on 3-7-00, bkg = 6,400 cpm
CU 208 & 210 walkovers performed on 3-13-00, bkg = 4,500 cpm
CU 225 & 226 walkovers performed on 3-24-00, bkg = 6,000 cpm

CU 208 walkover performed on 4-20-00, bkg = 6,000 cpm

CU 208 walkover performed on 4-23-00, bkg = 5,700 cpm

Therefore, I believe an appropriate estimate for the background count rate for the 3-9-00 CU 396 walkover would be 4,500 to 6,400 cpm.

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APPENDIX B Final Data

WSSRAP_ID	DATE_SAM	PARAMETER	CONC	DL	UNITS
SC-18124-S	7/14/2000	2,4,6-TRINITROTOLUENE	0.155	0.31	UG/G
SC-18127-S	7/14/2000	2,4,6-TRINITROTOLUENE	0.145	0.29	UG/G
SC-18209-S	10/27/1998	2,4,6-TRINITROTOLUENE	0.76	0.23	UG/G
SC-18210-S	10/27/1998	2,4,6-TRINITROTOLUENE	0.12	0.24	UG/G
SC-18214-S	10/27/1998	2,4,6-TRINITROTOLUENE	0.115	0.23	UG/G
SC-18217-S	10/27/1998	2,4,6-TRINITROTOLUENE	0.11	0.22	UG/G
SC-18522-S	7/14/2000	2,4,6-TRINITROTOLUENE	0.15	0.3	UG/G
SC-18523-S	7/14/2000	2,4,6-TRINITROTOLUENE	0.15	0.3	UG/G
SC-17102-S	9/29/1998	AROCLOR-1248	0	40	UG/KG
SC-17103-S	9/29/1998	AROCLOR-1248	0	40	UG/KG
SC-17106-S	9/29/1998	AROCLOR-1248	0	390	UG/KG
SC-17107-S	9/29/1998	AROCLOR-1248	0	38	UG/KG
SC-17110-S	9/29/1998	AROCLOR-1248	0	40	UG/KG
SC-17111-S	9/29/1998	AROCLOR-1248	0	38	UG/KG
SC-17203-C	9/29/1998	AROCLOR-1248	0	38	UG/KG
SC-17204-S	9/29/1998	AROCLOR-1248	0	40	UG/KG
SC-17205-C	9/29/1998	AROCLOR-1248	0	38	UG/KG
SC-17205-S	9/29/1998	AROCLOR-1248	0	41	UG/KG
SC-17206-S	9/29/1998	AROCLOR-1248	0	38	UG/KG
SC-17207-S	9/29/1998	AROCLOR-1248	0	36	UG/KG
SC-17211-S	9/29/1998	AROCLOR-1248	0	38	UG/KG
SC-17212-S	9/29/1998	AROCLOR-1248	0	38	UG/KG
SC-17213-S	9/29/1998	AROCLOR-1248	0	35	UG/KG
SC-17214-C	9/29/1998	AROCLOR-1248	0.	36	UG/KG
SC-17214-S	9/29/1998	AROCLOR-1248	0	39	UG/KG
SC-17901-S	10/23/1998	AROCLOR-1248	0	42	UG/KG
SC-17902-S	10/23/1998	AROCLOR-1248	0	39	UG/KG
SC-17903-S	10/23/1998	AROCLOR-1248	0	38	UG/KG
SC-17904-S	10/23/1998	AROCLOR-1248	0	38	UG/KG
SC-17905-S	10/23/1998	AROCLOR-1248	0	37	UG/KG
SC-17906-S	10/23/1998	AROCLOR-1248	0	40	UG/KG
SC-17907-S	10/23/1998	AROCLOR-1248	0	43	UG/KG
SC-17908-S	10/23/1998	AROCLOR-1248	0	41	UG/KG
SC-17909-S	10/23/1998	AROCLOR-1248	0	39	UG/KG
SC-17910-S	10/23/1998	AROCLOR-1248	0	37	UG/KG
SC-17911-S	10/23/1998	AROCLOR-1248	0	37	UG/KG
SC-17912-S	10/23/1998	AROCLOR-1248	0	38	UG/KG
SC-17913-S	10/23/1998	AROCLOR-1248	0	35	UG/KG
SC-17914-S	10/23/1998	AROCLOR-1248	0	40	UG/KG
SC-17915-S	10/23/1998	AROCLOR-1248	0	36	UG/KG
SC-17916-S	10/23/1998	AROCLOR-1248	0	41	UG/KG
SC-17917-S	10/23/1998	AROCLOR-1248	0	37	UG/KG
SC-17918-S	10/23/1998	AROCLOR-1248	0	36	UG/KG
SC-17919-S	10/23/1998	AROCLOR-1248	0	40	UG/KG
SC-17920-S	10/23/1998	AROCLOR-1248	0	. 36	UG/KG
SC-17102-S	9/29/1998	AROCLOR-1254	0	40	UG/KG
SC-17103-S	9/29/1998	AROCLOR-1254	0	40	UG/KG
SC-17106-S	9/29/1998	AROCLOR-1254	1900	390	UG/KG

WSSRAP_ID	DATE_SAM	PARAMETER	CONC	DL	UNITS
SC-17107-S	9/29/1998	AROCLOR-1254	0	38	UG/KG
SC-17110-S	9/29/1998	AROCLOR-1254	Ö	40	UG/KG
SC-17111-S	9/29/1998	AROCLOR-1254	0	38	UG/KG
SC-17203-C	9/29/1998	AROCLOR-1254	Ō	38	UG/KG
SC-17204-S	9/29/1998	AROCLOR-1254	0	40	UG/KG
SC-17205-C	9/29/1998	AROCLOR-1254	0	38	UG/KG
SC-17205-S	9/29/1998	AROCLOR-1254	0	41	UG/KG
SC-17206-S	9/29/1998	AROCLOR-1254	0	38	UG/KG
SC-17207-S	9/29/1998	AROCLOR-1254	0	36	UG/KG
SC-17211-S	9/29/1998	AROCLOR-1254	0	38	UG/KG
SC-17212-S	9/29/1998	AROCLOR-1254	0	38	UG/KG
SC-17213-S	9/29/1998	AROCLOR-1254	0	35	UG/KG
SC-17214-C	9/29/1998	AROCLOR-1254	0	36	UG/KG
SC-17214-S	9/29/1998	AROCLOR-1254	0	39	UG/KG
SC-17901-S	10/23/1998	AROCLOR-1254	0	42	UG/KG
SC-17902-S	10/23/1998	AROCLOR-1254	0	39	UG/KG
SC-17903-S	10/23/1998	AROCLOR-1254	0	38	UG/KG
SC-17904-S	10/23/1998	AROCLOR-1254	0	38	UG/KG
SC-17905-S	10/23/1998	AROCLOR-1254	0	37	UG/KG
SC-17906-S	10/23/1998	AROCLOR-1254	0	40	UG/KG
SC-17907-S	10/23/1998	AROCLOR-1254	0	43	UG/KG
SC-17908-S	10/23/1998	AROCLOR-1254	0	41	UG/KG
SC-17909-S	10/23/1998	AROCLOR-1254	0	39	UG/KG
SC-17910-S	10/23/1998	AROCLOR-1254	0	37	UG/KG
SC-17911-S	10/23/1998	AROCLOR-1254	0	37	UG/KG
SC-17912-S	10/23/1998	AROCLOR-1254	0	38	UG/KG
SC-17913-S	10/23/1998	AROCLOR-1254	0	35	UG/KG
SC-17914-S	10/23/1998	AROCLOR-1254	0	40	UG/KG
SC-17915-S	10/23/1998	AROCLOR-1254	0	36	UG/KG
SC-17916-S	10/23/1998	AROCLOR-1254	0	41	UG/KG
SC-17917-S	10/23/1998	AROCLOR-1254	0	37	UG/KG
SC-17918-S	10/23/1998	AROCLOR-1254	0	36	UG/KG
SC-17919-S	10/23/1998	AROCLOR-1254	0	40	UG/KG
SC-17920-S	10/23/1998	AROCLOR-1254	0	36	UG/KG
SC-17102-S	9/29/1998	AROCLOR-1260	0	40	UG/KG
SC-17103-S	9/29/1998	AROCLOR-1260	0	40	UG/KG
SC-17106-S	9/29/1998	AROCLOR-1260	0	390	UG/KG
SC-17107-S	9/29/1998	AROCLOR-1260	0	38	UG/KG
SC-17110-S	9/29/1998	AROCLOR-1260	0	40	UG/KG
SC-17111-S	9/29/1998	AROCLOR-1260	0	38	UG/KG
SC-17203-C	9/29/1998	AROCLOR-1260	0	38	UG/KG
SC-17204-S	9/29/1998	AROCLOR-1260	0	40	UG/KG
SC-17205-C	9/29/1998	AROCLOR-1260	0	38	UG/KG
SC-17205-S	9/29/1998	AROCLOR-1260	0	41	UG/KG
SC-17206-S	9/29/1998	AROCLOR-1260	0	38	UG/KG
SC-17207-S	9/29/1998	AROCLOR-1260	0	36	UG/KG
SC-17211-S	9/29/1998	AROCLOR-1260	0	38	UG/KG
SC-17212-S	9/29/1998	AROCLOR-1260	0	38	UG/KG

WSSRAP_ID	DATE_SAM	PARAMETER	CONC	DL	UNITS
SC-17213-S	9/29/1998	AROCLOR-1260	0	35	UG/KG
SC-17214-C	9/29/1998	AROCLOR-1260	0	36	UG/KG
SC-17214-S	9/29/1998	AROCLOR-1260	0	39	UG/KG
SC-17901-S	10/23/1998	AROCLOR-1260	0	42	UG/KG
SC-17902-S	10/23/1998	AROCLOR-1260	0	39	UG/KG
SC-17903-S	10/23/1998	AROCLOR-1260	0	38	UG/KG
SC-17904-S	10/23/1998	AROCLOR-1260	0	38	UG/KG
SC-17905-S	10/23/1998	AROCLOR-1260	0	37	UG/KG
SC-17906-S	10/23/1998	·AROCLOR-1260	0	40	UG/KG
SC-17907-S	10/23/1998	AROCLOR-1260	0	43	UG/KG
SC-17908-S	10/23/1998	AROCLOR-1260	0 `	41	UG/KG
SC-17909-S	10/23/1998	AROCLOR-1260	0	39	UG/KG
SC-17910-S	10/23/1998	AROCLOR-1260	0	- <b>37</b>	UG/KG
SC-17911-S	10/23/1998	AROCLOR-1260	0	37	UG/KG
SC-17912-S	10/23/1998	AROCLOR-1260	0	38	UG/KG
SC-17913-S	10/23/1998	AROCLOR-1260	0	35	UG/KG
SC-17914-S	10/23/1998	AROCLOR-1260	0	40	UG/KG
SC-17915-S	10/23/1998	AROCLOR-1260	0	36	UG/KG
SC-17916-S	10/23/1998	AROCLOR-1260	0	41	UG/KG
SC-17917-S	10/23/1998	AROCLOR-1260	0	37	UG/KG
SC-17918-S	10/23/1998	AROCLOR-1260	0	36	UG/KG
SC-17919-S	10/23/1998	AROCLOR-1260	0	40	UG/KG
SC-17920-S	10/23/1998	AROCLOR-1260	0	36	UG/KG
SC-17018-S-RS	10/15/1998	BENZO(A)ANTHRACENE	0	4.4	UG/KG
SC-18114-S-RS	7/6/2000	BENZO(A)ANTHRACENE	0	18	UG/KG
SC-18115-S-RS	7/6/2000	BENZO(A)ANTHRACENE	0	18	UG/KG
SC-18116-S-RS	7/6/2000	BENZO(A)ANTHRACENE	0	18	UG/KG
SC-17018-S-RS	10/15/1998	BENZO(A)PYRENE	0	7.3	UG/KG
SC-18114-S-RS	7/6/2000	BENZO(A)PYRENE	0	18	UG/KG
SC-18115-S-RS	7/6/2000	BENZO(A)PYRENE	0	18	UG/KG
SC-18116-S-RS	7/6/2000	BENZO(A)PYRENE	0	18	UG/KG
SC-17018-S-RS	10/15/1998	BENZO(B)FLUORANTHENE	0	5.8	UG/KG
SC-18114-S-RS	7/6/2000	BENZO(B)FLUORANTHENE	0	18	UG/KG
SC-18115-S-RS	7/6/2000	BENZO(B)FLUORANTHENE	0	18	UG/KG
SC-18116-S-RS	7/6/2000	BENZO(B)FLUORANTHENE	0	18	UG/KG
SC-17018-S-RS	10/15/1998	BENZO(K)FLUORANTHENE	0	5.3	UG/KG
SC-18114-S-RS	7/6/2000	BENZO(K)FLUORANTHENE	0	18	UG/KG
SC-18115-S-RS	7/6/2000	BENZO(K)FLUORANTHENE	0	18	UG/KG
SC-18116-S-RS	7/6/2000	BENZO(K)FLUORANTHENE	0	18	UG/KG
SC-17018-S-RS	10/15/1998	CHRYSENE	0	48	UG/KG
SC-18114-S-RS	7/6/2000	CHRYSENE	0	<sub>.</sub> 18	UG/KG
SC-18115-S-RS	7/6/2000	CHRYSENE	0	18	UG/KG
SC-18116-S-RS	7/6/2000	CHRYSENE	28	18	UG/KG
SC-17018-S-RS	10/15/1998	INDENO(1,2,3-CD)PYRENE	0	14	UG/KG
SC-18114-S-RS	7/6/2000	INDENO(1,2,3-CD)PYRENE	0	18	UG/KG
SC-18115-S-RS	7/6/2000	INDENO(1,2,3-CD)PYRENE	0	18	UG/KG
SC-18116-S-RS	7/6/2000	INDENO(1,2,3-CD)PYRENE	0	18	UG/KG
SC-18209-S	10/27/1998	LEAD	13	7.06	UG/G

SC-18210-S         10/27/1998         LEAD         13.4         7.97         UG/O           SC-18214-S         10/27/1998         LEAD         11         7.05         UG/O           SC-18217-S         10/27/1998         LEAD         12.8         7.4         UG/O           SC-17002-S         9/29/1998         RADIUM-226         1.23         0.34         PCI/O           SC-17003-S         9/29/1998         RADIUM-226         1.42         0.31         PCI/O           SC-17004-S         9/29/1998         RADIUM-226         1.48         0.38         PCI/O           SC-17005-S         9/29/1998         RADIUM-226         1.1         0.33         PCI/O           SC-17007-S         9/29/1998         RADIUM-226         1.51         0.33         PCI/O           SC-17008-S         9/29/1998         RADIUM-226         1.36         0.24         PCI/O           SC-17010-S         9/29/1998         RADIUM-226         1.3         0.22         PCI/O           SC-17011-C         9/29/1998         RADIUM-226         1.5         0.31         PCI/O           SC-17012-S         9/29/1998         RADIUM-226         1.5         0.31         PCI/O           SC-17013-S	WSSRAP_ID	DATE_SAM	PARAMETER	CONC	DL	UNITS
SC-18214-S         10/27/1998         LEAD         11         7.05         UG/O           SC-18217-S         10/27/1998         LEAD         12.8         7.4         UG/O           SC-17002-S         9/29/1998         RADIUM-226         1.23         0.34         PCI/O           SC-17003-S         9/29/1998         RADIUM-226         1.42         0.31         PCI/O           SC-17004-S         9/29/1998         RADIUM-226         1.48         0.38         PCI/O           SC-17005-S         9/29/1998         RADIUM-226         1.1         0.33         PCI/O           SC-17007-S         9/29/1998         RADIUM-226         1.51         0.33         PCI/O           SC-17008-S         9/29/1998         RADIUM-226         1.36         0.24         PCI/O           SC-17009-S         9/29/1998         RADIUM-226         1.33         0.22         PCI/O           SC-17010-S         9/29/1998         RADIUM-226         1.4         0.36         PCI/O           SC-17011-C         9/29/1998         RADIUM-226         1.5         0.31         PCI/O           SC-17012-S         9/29/1998         RADIUM-226         1.2         0.22         PCI/O           SC-17014-S <td>SC-18210-S</td> <td>10/27/1998</td> <td>LEAD</td> <td>13.4</td> <td></td> <td>UG/G</td>	SC-18210-S	10/27/1998	LEAD	13.4		UG/G
SC-18217-S         10/27/1998         LEAD         12.8         7 4         UG/60           SC-17002-S         9/29/1998         RADIUM-226         1 23         0.34         PCI/60           SC-17003-S         9/29/1998         RADIUM-226         1.42         0.31         PCI/60           SC-17004-S         9/29/1998         RADIUM-226         1.48         0.38         PCI/60           SC-17005-S         9/29/1998         RADIUM-226         1.1         0.33         PCI/60           SC-17007-S         9/29/1998         RADIUM-226         1.51         0.33         PCI/60           SC-17008-S         9/29/1998         RADIUM-226         1.36         0.24         PCI/60           SC-17009-S         9/29/1998         RADIUM-226         1.33         0.22         PCI/60           SC-17010-S         9/29/1998         RADIUM-226         1.4         0.36         PCI/60           SC-17011-C         9/29/1998         RADIUM-226         1.5         0.31         PCI/60           SC-17012-S         9/29/1998         RADIUM-226         1.2         0.22         PCI/60           SC-17014-S         9/29/1998         RADIUM-226         1.38         0.34         PCI/60	SC-18214-S	10/27/1998	LEAD	11		UG/G
SC-17002-S         9/29/1998         RADIUM-226         1 23         0.34         PCI/O           SC-17003-S         9/29/1998         RADIUM-226         1.42         0.31         PCI/O           SC-17004-S         9/29/1998         RADIUM-226         1.48         0.38         PCI/O           SC-17005-S         9/29/1998         RADIUM-226         1.1         0.33         PCI/O           SC-17007-S         9/29/1998         RADIUM-226         1.51         0.33         PCI/O           SC-17008-S         9/29/1998         RADIUM-226         1.36         0.24         PCI/O           SC-17009-S         9/29/1998         RADIUM-226         1.33         0.22         PCI/O           SC-17010-S         9/29/1998         RADIUM-226         1.4         0.36         PCI/O           SC-17011-C         9/29/1998         RADIUM-226         1.5         0.31         PCI/O           SC-17012-S         9/29/1998         RADIUM-226         1.2         0.22         PCI/O           SC-17013-S         9/29/1998         RADIUM-226         1.38         0.34         PCI/O           SC-17015-S         9/29/1998         RADIUM-226         1.52         0.26         PCI/O <td< td=""><td>SC-18217-S</td><td>10/27/1998</td><td>LEAD</td><td>12.8</td><td></td><td>UG/G</td></td<>	SC-18217-S	10/27/1998	LEAD	12.8		UG/G
SC-17003-S         9/29/1998         RADIUM-226         1.42         0.31         PCI/O           SC-17004-S         9/29/1998         RADIUM-226         1.48         0.38         PCI/O           SC-17005-S         9/29/1998         RADIUM-226         1.1         0.33         PCI/O           SC-17007-S         9/29/1998         RADIUM-226         1.51         0.33         PCI/O           SC-17008-S         9/29/1998         RADIUM-226         1.36         0.24         PCI/O           SC-17009-S         9/29/1998         RADIUM-226         1.33         0.22         PCI/O           SC-17010-S         9/29/1998         RADIUM-226         1.4         0.36         PCI/O           SC-17011-C         9/29/1998         RADIUM-226         1.5         0.31         PCI/O           SC-17012-S         9/29/1998         RADIUM-226         1.46         0.4         PCI/O           SC-17013-S         9/29/1998         RADIUM-226         1.2         0.22         PCI/O           SC-17014-S         9/29/1998         RADIUM-226         1.38         0.34         PCI/O           SC-17017-S         9/29/1998         RADIUM-226         1.52         0.26         PCI/O	SC-17002-S	9/29/1998	RADIUM-226	1 23	0.34	PCI/G
SC-17004-S         9/29/1998         RADIUM-226         1.48         0.38         PCI/G           SC-17005-S         9/29/1998         RADIUM-226         1.1         0.33         PCI/G           SC-17007-S         9/29/1998         RADIUM-226         1.51         0.33         PCI/G           SC-17008-S         9/29/1998         RADIUM-226         1.36         0.24         PCI/G           SC-17009-S         9/29/1998         RADIUM-226         1.33         0.22         PCI/G           SC-17010-S         9/29/1998         RADIUM-226         1.4         0.36         PCI/G           SC-17011-C         9/29/1998         RADIUM-226         1.5         0.31         PCI/G           SC-17012-S         9/29/1998         RADIUM-226         1.46         0.4         PCI/G           SC-17013-S         9/29/1998         RADIUM-226         1.2         0.22         PCI/G           SC-17014-S         9/29/1998         RADIUM-226         1.38         0.34         PCI/G           SC-17015-S         9/29/1998         RADIUM-226         1.52         0.26         PCI/G           SC-17018-S         9/29/1998         RADIUM-226         1.68         0.41         PCI/G	SC-17003-S	9/29/1998	RADIUM-226	1.42	0.31	PCI/G
SC-17005-S         9/29/1998         RADIUM-226         1.1         0.33         PCI/O           SC-17007-S         9/29/1998         RADIUM-226         1.51         0.33         PCI/O           SC-17008-S         9/29/1998         RADIUM-226         1.36         0.24         PCI/O           SC-17009-S         9/29/1998         RADIUM-226         1.33         0.22         PCI/O           SC-17010-S         9/29/1998         RADIUM-226         1.4         0.36         PCI/O           SC-17011-C         9/29/1998         RADIUM-226         1.5         0.31         PCI/O           SC-17012-S         9/29/1998         RADIUM-226         1.46         0.4         PCI/O           SC-17013-S         9/29/1998         RADIUM-226         1.2         0.22         PCI/O           SC-17014-S         9/29/1998         RADIUM-226         1.38         0.34         PCI/O           SC-17015-S         9/29/1998         RADIUM-226         1.52         0.26         PCI/O           SC-17018-S         9/29/1998         RADIUM-226         1.68         0.41         PCI/O           SC-17018-S         9/29/1998         RADIUM-226         1.62         0.31         PCI/O	SC-17004-S	9/29/1998	RADIUM-226	1.48		PCI/G
SC-17007-S         9/29/1998         RADIUM-226         1.51         0.33         PCI/G           SC-17008-S         9/29/1998         RADIUM-226         1.36         0.24         PCI/G           SC-17009-S         9/29/1998         RADIUM-226         1.33         0.22         PCI/G           SC-17010-S         9/29/1998         RADIUM-226         1.4         0.36         PCI/G           SC-17011-C         9/29/1998         RADIUM-226         1.5         0.31         PCI/G           SC-17012-S         9/29/1998         RADIUM-226         1.46         0.4         PCI/G           SC-17013-S         9/29/1998         RADIUM-226         1.2         0.22         PCI/G           SC-17014-S         9/29/1998         RADIUM-226         1.38         0.34         PCI/G           SC-17015-S         9/29/1998         RADIUM-226         1.52         0.26         PCI/G           SC-17018-S         9/29/1998         RADIUM-226         1.68         0.41         PCI/G           SC-17018-S-RS         10/15/1998         RADIUM-226         1.66         0.32         PCI/G           SC-17019-S         9/29/1998         RADIUM-226         1.25         0.39         PCI/G	SC-17005-S	9/29/1998	RADIUM-226	1.1		PCI/G
SC-17009-S         9/29/1998         RADIUM-226         1 33         0.22         PCI/O           SC-17010-S         9/29/1998         RADIUM-226         1.4         0.36         PCI/O           SC-17011-C         9/29/1998         RADIUM-226         1.5         0.31         PCI/O           SC-17012-S         9/29/1998         RADIUM-226         1.46         0.4         PCI/O           SC-17013-S         9/29/1998         RADIUM-226         1.2         0.22         PCI/O           SC-17014-S         9/29/1998         RADIUM-226         1.38         0.34         PCI/O           SC-17015-S         9/29/1998         RADIUM-226         1.52         0.26         PCI/O           SC-17017-S         9/29/1998         RADIUM-226         1.68         0.41         PCI/O           SC-17018-S         9/29/1998         RADIUM-226         1.62         0.31         PCI/O           SC-17018-S-RS         10/15/1998         RADIUM-226         1.66         0.32         PCI/O           SC-17019-S         9/29/1998         RADIUM-226         1.25         0.39         PCI/O	SC-17007-S	9/29/1998	RADIUM-226	1.51	0.33	PCI/G
SC-17010-S         9/29/1998         RADIUM-226         1.4         0.36         PCI/G           SC-17011-C         9/29/1998         RADIUM-226         1.5         0.31         PCI/G           SC-17012-S         9/29/1998         RADIUM-226         1.46         0.4         PCI/G           SC-17013-S         9/29/1998         RADIUM-226         1.2         0.22         PCI/G           SC-17014-S         9/29/1998         RADIUM-226         1.38         0.34         PCI/G           SC-17015-S         9/29/1998         RADIUM-226         1.52         0.26         PCI/G           SC-17017-S         9/29/1998         RADIUM-226         1.68         0.41         PCI/G           SC-17018-S         9/29/1998         RADIUM-226         1.62         0.31         PCI/G           SC-17019-S         9/29/1998         RADIUM-226         1.66         0.32         PCI/G           SC-17019-S         9/29/1998         RADIUM-226         1.25         0.39         PCI/G	SC-17008-S	9/29/1998	RADIUM-226	1.36	0.24	PCI/G
SC-17011-C         9/29/1998         RADIUM-226         1.5         0.31         PCI/G           SC-17012-S         9/29/1998         RADIUM-226         1.46         0.4         PCI/G           SC-17013-S         9/29/1998         RADIUM-226         1.2         0.22         PCI/G           SC-17014-S         9/29/1998         RADIUM-226         1.38         0.34         PCI/G           SC-17015-S         9/29/1998         RADIUM-226         1.52         0.26         PCI/G           SC-17017-S         9/29/1998         RADIUM-226         1.68         0.41         PCI/G           SC-17018-S         9/29/1998         RADIUM-226         1.62         0.31         PCI/G           SC-17018-S-RS         10/15/1998         RADIUM-226         1.66         0.32         PCI/G           SC-17019-S         9/29/1998         RADIUM-226         1.25         0.39         PCI/G		9/29/1998	RADIUM-226	1 33	0.22	PCI/G
SC-17012-S         9/29/1998         RADIUM-226         1.46         0.4         PCI/G           SC-17013-S         9/29/1998         RADIUM-226         1.2         0.22         PCI/G           SC-17014-S         9/29/1998         RADIUM-226         1.38         0.34         PCI/G           SC-17015-S         9/29/1998         RADIUM-226         1.52         0.26         PCI/G           SC-17017-S         9/29/1998         RADIUM-226         1.68         0.41         PCI/G           SC-17018-S         9/29/1998         RADIUM-226         1.62         0.31         PCI/G           SC-17018-S-RS         10/15/1998         RADIUM-226         1.66         0.32         PCI/G           SC-17019-S         9/29/1998         RADIUM-226         1.25         0.39         PCI/G	SC-17010-S	9/29/1998	RADIUM-226	1.4	0.36	PCI/G
SC-17013-S         9/29/1998         RADIUM-226         1.2         0.22         PCI/G           SC-17014-S         9/29/1998         RADIUM-226         1 38         0.34         PCI/G           SC-17015-S         9/29/1998         RADIUM-226         1.52         0.26         PCI/G           SC-17017-S         9/29/1998         RADIUM-226         1.68         0 41         PCI/G           SC-17018-S         9/29/1998         RADIUM-226         1.62         0.31         PCI/G           SC-17018-S-RS         10/15/1998         RADIUM-226         1.66         0.32         PCI/G           SC-17019-S         9/29/1998         RADIUM-226         1.25         0.39         PCI/G	SC-17011-C	9/29/1998	RADIUM-226	1.5	0.31	PCI/G
SC-17013-S       9/29/1998       RADIUM-226       1.2       0.22       PCI/G         SC-17014-S       9/29/1998       RADIUM-226       1.38       0.34       PCI/G         SC-17015-S       9/29/1998       RADIUM-226       1.52       0.26       PCI/G         SC-17017-S       9/29/1998       RADIUM-226       1.68       0.41       PCI/G         SC-17018-S       9/29/1998       RADIUM-226       1.62       0.31       PCI/G         SC-17018-S-RS       10/15/1998       RADIUM-226       1.66       0.32       PCI/G         SC-17019-S       9/29/1998       RADIUM-226       1.25       0.39       PCI/G	SC-17012-S	9/29/1998	RADIUM-226	1.46	0 4	PCI/G
SC-17015-S         9/29/1998         RADIUM-226         1.52         0.26         PCI/G           SC-17017-S         9/29/1998         RADIUM-226         1.68         0.41         PCI/G           SC-17018-S         9/29/1998         RADIUM-226         1.62         0.31         PCI/G           SC-17018-S-RS         10/15/1998         RADIUM-226         1.66         0.32         PCI/G           SC-17019-S         9/29/1998         RADIUM-226         1.25         0.39         PCI/G	SC-17013-S	9/29/1998	RADIUM-226	1.2	0.22	PCI/G
SC-17017-S       9/29/1998       RADIUM-226       1.68       0.41       PCI/G         SC-17018-S       9/29/1998       RADIUM-226       1.62       0.31       PCI/G         SC-17018-S-RS       10/15/1998       RADIUM-226       1.66       0.32       PCI/G         SC-17019-S       9/29/1998       RADIUM-226       1.25       0.39       PCI/G	SC-17014-S	9/29/1998	RADIUM-226	1 38	0.34	PCI/G
SC-17018-S       9/29/1998       RADIUM-226       1.62       0.31       PCI/G         SC-17018-S-RS       10/15/1998       RADIUM-226       1.66       0.32       PCI/G         SC-17019-S       9/29/1998       RADIUM-226       1.25       0.39       PCI/G	SC-17015-S	9/29/1998	RADIUM-226	1.52	0.26	PCI/G
SC-17018-S-RS       10/15/1998       RADIUM-226       1.66       0.32       PCI/G         SC-17019-S       9/29/1998       RADIUM-226       1.25       0.39       PCI/G		9/29/1998	RADIUM-226	1.68	0 41	PCI/G
SC-17019-S 9/29/1998 RADIUM-226 1.25 0.39 PCI/G	SC-17018-S	9/29/1998	RADIUM-226	1.62	0.31	PCI/G
20 4700		10/15/1998	RADIUM-226	1.66	0.32	PCI/G
SC-17020-S 9/29/1998 RADII IM-226 1.43 0.34 DOLG	SC-17019-S	9/29/1998	RADIUM-226	1.25	0 39	PCI/G
·· 5 6/20/1000 IVADIONI-220 1.40 U 34 PU/G	SC-17020-S	9/29/1998	RADIUM-226	1.43	0 34	PCI/G
		9/29/1998	RADIUM-226	1.6	0.37	PCI/G
		9/29/1998	RADIUM-226	1.62	0 25	PCI/G
SC-17023-S 9/29/1998 RADIUM-226 1 35 0.33 PCI/G	SC-17023-S	9/29/1998	RADIUM-226	1 35	0.33	PCI/G
		9/29/1998	RADIUM-226	1.49	0.21	PCI/G
SC-17025-S 9/29/1998 RADIUM-226 1.39 0.25 PCI/G	SC-17025-S	9/29/1998	RADIUM-226	1.39	0.25	PCI/G
SC-17101-S 9/29/1998 RADIUM-226 1 1 1 0.42 PCI/G	SC-17101-S	9/29/1998	RADIUM-226	1 11	0.42	PCI/G
		9/29/1998	RADIUM-226	1.31	0 27	PCI/G
	•	9/29/1998		1.44	0.46	PCI/G
			RADIUM-226	1.3	0 26	PCI/G
		9/29/1998	RADIUM-226	1.25	0.36	PCI/G
SC-17106-S 9/29/1998 RADIUM-226 1 1 5 0 28 PCI/G		9/29/1998	RADIUM-226	1 15	0 28	PCI/G
			RADIUM-226	1.39	0.29	PCI/G
	<del>-</del>	9/29/1998	RADIUM-226	1 34	0.28	PCI/G
				1 51	0 35	PCI/G
				1.42	0.24	PCI/G
				1.77	0.26	PCI/G
				1 5	0.24	PCI/G
				1.21	0.42	PCI/G
				1.39	0 26	PCI/G
				1.27	0.44	PCI/G
				1.19	0.29	PCI/G
AA 4844 A	_					PCI/G
AA					0.24	PCI/G
00.47400.0						PCI/G
					0.3	PCI/G
00.47400.0						PCI/G
SC-17122-S 9/29/1998 RADIUM-226 1.5 0.28 PCI/G	SU-1/122-S	9/29/1998	RADIUM-226	1.5	0.28	PCI/G

WSSRAP_ID	DATE_SAM	PARA <b>M</b> ETER	CONC	DL	UNITS
SC-17123-S	9/29/1998	RADIUM-226	1.33	0.28	PCI/G
SC-17124-S	9/29/1998	RADIUM-226	1.45	0.28	PCI/G
SC-17201-S	9/29/1998	RADIUM-226	1.15	0.3	PCI/G
SC-17202-S	9/29/1998	RADIUM-226	1.56	0.24	PCI/G
SC-17203-C	9/29/1998	RADIUM-226	1.35	0.39	PCI/G
SC-17203-S	9/29/1998	RADIUM-226	1.44	0.33	PCI/G
SC-17204-S	9/29/1998	RADIUM-226	1.34	0.3	PCI/G
SC-17205-C	9/29/1998	RADIUM-226	1.29	0.27	PCI/G
SC-17205-S	9/29/1998	RADIUM-226	1.3	0.23	PCI/G
SC-17206-S	9/29/1998	RADIUM-226	1.4	0.29	PCI/G
SC-17207-S	9/29/1998	RADIUM-226	1.26	0.35	PCI/G
SC-17208-S	9/29/1998	RADIUM-226	1.43	0.29	PCI/G
SC-17209-S	9/29/1998	RADIUM-226	1.34	0.37	PCI/G
SC-17210-S	9/29/1998	RADIUM-226	1.58	0.27	PCI/G
SC-17211-S	9/29/1998	RADIUM-226	1.22	0.33	PCI/G
SC-17212-S	9/29/1998	RADIUM-226	1.31	0.39	PCI/G
SC-17213-S	9/29/1998	RADIUM-226	1.35	0.2	PCI/G
SC-17214-C	9/29/1998	RADIUM-226	1.26	0.38	PCI/G
SC-17214-S	9/29/1998	RADIUM-226	1.3	0.28	PCI/G
SC-17215-S	9/29/1998	RADIUM-226	1.29	0.4	PCI/G
SC-17216-S	9/29/1998	RADIUM-226	1.39	0.28	PCI/G
SC-17217-S	9/29/1998	RADIUM-226	1.45	0.36	PCI/G
SC-17218-S	9/29/1998	RADIUM-226	1.11	0.27	PCI/G
SC-17219-S	9/29/1998	RADIUM-226	1.47	0.33	PCI/G
SC-17220-S	9/29/1998	RADIUM-226	1.2	0.28	PCI/G
SC-17221-C	9/29/1998	RADIUM-226	1.13	0.3	PCI/G PCI/G
SC-17221-S	9/29/1998	RADIUM-226	1	0.3	PCI/G PCI/G
SC-17222-S	9/29/1998	RADIUM-226	1.2	0.29	PCI/G
SC-17223-S	9/29/1998	RADIUM-226	1.53	0.29 0.34	PCI/G PCI/G
SC-17224-S	9/29/1998	RADIUM-226	1.34	0.3 <del>4</del> 0.28	PCI/G
SC-17225-S	9/29/1998	RADIUM-226	1.41 1.19	0.28	PCI/G
SC-17226-S	9/29/1998	RADIUM-226	1.19	0.3 <del>9</del> 0.26	PCI/G
SC-17227-S	9/29/1998	RADIUM-226	1.13	0.42	PCI/G
SC-17228-S	9/29/1998	RADIUM-226		0.42	PCI/G
SC-17301-S	9/29/1998	RADIUM-226	1.56 1.27	0.23	PCI/G
SC-17302-S	9/30/1998	RADIUM-226	1.27	0.43	PCI/G
SC-17303-S	9/30/1998	RADIUM-226	1.34	0.29	PCI/G
SC-17304-S	9/30/1998	RADIUM-226	1.53	0.46	PCI/G
SC-17305-S	9/30/1998	RADIUM-226	1.06	0.32	PCI/G
SC-17306-S	9/30/1998	RADIUM-226 RADIUM-226	0.99	0.3	PCI/G
SC-17307-S	9/30/1998	RADIUM-226	1.45	0.33	PCI/G
SC-17308-S	9/29/1998	RADIUM-226 RADIUM-226	1.41	0.33	PCI/G
SC-17309-S	9/30/1998	RADIUM-226	1.47	0.29	PCI/G
SC-17310-S	9/30/1998	RADIUM-226	1.23	0.34	PCI/G
SC-17311-S	9/30/1998	RADIUM-226	0.85	0.3	PCI/G
SC-17312-S	9/30/1998	RADIUM-226	1.15	0.27	PCI/G
SC-17313-S	9/30/1998 9/30/1998	RADIUM-226	1.09	0.28	PCI/G
SC-17314-S	3/30/1990	1 V-(D10141-220	1.00	<del>-</del> -	

WSSRAP_ID	DATE_SAM	PARAMETER	CONC	DL	UNITS
SC-17315-S	9/30/1998	RADIUM-226	1.44	0.33	PCI/G
SC-17316-S	9/30/1998	RADIUM-226	1.32	0.47	PCI/G
SC-17317-S	9/30/1998	RADIUM-226	1.44	0 26	PCI/G
SC-17318-S	9/30/1998	RADIUM-226	1.22	0.39	PCI/G
SC-17319-S	10/16/1998	RADIUM-226	1.12	0.22	PCI/G
SC-17320-S	10/16/1998	RADIUM-226	1.08	0.23	PCI/G
SC-17321-S	10/16/1998	RADIUM-226	0.99	0.23	PCI/G
SC-17402-S	9/30/1998	RADIUM-226	1.39	0.31	PCI/G
SC-17403-S	9/30/1998	RADIUM-226	1.33	0.38	PCI/G
SC-17404-S	9/30/1998	RADIUM-226	1.49	0.24	PCI/G
SC-17405-S	9/30/1998	RADIUM-226	1.49	0 35	PCI/G
SC-17407-S	9/30/1998	RADIUM-226	1.64	0.32	PCI/G
SC-17408-S	9/30/1998	RADIUM-226	1 3	0.36	PCI/G
SC-17409-S	9/30/1998	RADIUM-226	1.66	0.31	PCI/G
SC-17410-S	9/30/1998	RADIUM-226	1.22	0 29	PCI/G
SC-17411-S	9/30/1998	RADIUM-226	1.88	0.29	PCI/G
SC-17412-S	9/30/1998	RADIUM-226	1 34	0.37	PCI/G
SC-17413-S	9/30/1998	RADIUM-226	1.66	0.26	PCI/G
SC-17414-S	9/30/1998	RADIUM-226	1.32	0.39	PCI/G
SC-17416-S	9/30/1998	RADIUM-226	1.78	0.31	PCI/G
SC-17417-S	9/30/1998	RADIUM-226	1.38	03	PCI/G
SC-17418-S	9/30/1998	RADIUM-226	1.45	0.33	PCI/G
SC-17419-S	9/30/1998	RADIUM-226	1 5	0.31	PCI/G
SC-17420-S	9/30/1998	RADIUM-226	1.59	0 27	PCI/G
SC-17421-S	9/30/1998	RADIUM-226	1.3	0 4	PCI/G
SC-17422-S	9/30/1998	RADIUM-226	1 36	03	PCI/G
SC-17423-S	9/30/1998	RADIUM-226	1.24	0 35	PCI/G
SC-17501-C	9/30/1998	RADIUM-226	1.26	0 36	PCI/G
SC-17502-S	9/30/1998	RADIUM-226	1.21	0.36	PCI/G
SC-17503-S	9/30/1998	RADIUM-226	1.21	0.23	PCI/G
SC-17504-S	9/30/1998	RADIUM-226	1.58	0.28	PCI/G
SC-17506-S	9/30/1998	RADIUM-226	1.53	0 27	PCI/G
SC-17507-S	9/30/1998	RADIUM-226	1.33	0 37	PCI/G
SC-17508-S	9/30/1998	RADIUM-226	1.49	0 32	PCI/G
SC-17509-C	9/30/1998	RADIUM-226	1 17	0.27	PCI/G
SC-17510-S	9/30/1998	RADIUM-226	1.45	0 24	PCI/G
SC-17511-S	9/30/1998	RADIUM-226	1.44	0 47	PCI/G
SC-17512-S	9/30/1998	RADIUM-226	1.47	0.3	PCI/G
SC-17514-S	9/30/1998	RADIUM-226	1 19	0.34	PCI/G
SC-17515-S	9/30/1998	RADIUM-226	1 51	0 26	PCI/G
SC-17516-S	9/30/1998	RADIUM-226	1.46	0 36	PCI/G
SC-17518-S	9/30/1998	RADIUM-226	1.37	0.22	PCI/G
SC-17519-S	9/30/1998	RADIUM-226	1.27	0 33	PCI/G
SC-17520-S	9/30/1998	RADIUM-226	1.2	0 28	PCI/G
SC-17523-S	9/30/1998	RADIUM-226	1.66	0.33	PCI/G
SC-17524-S SC-17601-S	9/30/1998	RADIUM-226	0.99	0.22	PCI/G
	10/1/1998	RADIUM-226	1.43	0 39	PCI/G
SC-17602-S	10/1/1998	RADIUM-226	1 49	0.28	PCI/G

WSSRAP ID	DATE_SAM	PARAMETER	CONC	DL	UNITS
SC-17603-S	10/1/1998	RADIUM-226	1.64	0.37	PCI/G
SC-17604-S	10/1/1998	RADIUM-226	1.52	0.3	PCI/G
SC-17605-S	10/1/1998	RADIUM-226	1.46	0.45	PCI/G
SC-17606-S	10/1/1998	RADIUM-226	1.42	0.26	PCI/G
SC-17607-S	10/1/1998	RADIUM-226	1.56	0.45	PCI/G
SC-17608-S	10/1/1998	RADIUM-226	1.5	0.29	PCI/G
SC-17609-S	10/1/1998	RADIUM-226	1.33	0.43	PCI/G
SC-17610-S	10/1/1998	RADIUM-226	1.54	0.25	PCI/G
SC-17611-S	10/1/1998	RADIUM-226	1.26	0.45	PCI/G
SC-17612-S	10/1/1998	RADIUM-226	1.58	0.26	PCI/G
SC-17613-S	10/1/1998	RADIUM-226	1.54	0.4	PCI/G
SC-17614-S	10/1/1998	RADIUM-226	1.57	0.33	PCI/G
SC-17615-S	10/1/1998	RADIUM-226	1.51	0.35	PCI/G
SC-17616-S	10/1/1998	RADIUM-226	1.57	0.28	PCI/G
SC-17617-S	10/1/1998	RADIUM-226	1.31	0.38	PCI/G
SC-17618-S	10/1/1998	RADIU <b>M</b> -226	1.52	0.3	PCI/G
SC-17619-S	10/1/1998	RADIUM-226	1.52	0.47	PCI/G
SC-17620-S	10/1/1998	RADIUM-226	1.58	0.32	PCI/G
SC-17701-S	9/30/1998	RADIUM-226	1.19	0.24	PCI/G
SC-17702-S	10/1/1998	RADIUM-226	1.31	0.25	PCI/G
SC-17703-S	10/1/1998	RADIUM-226	1.41	0.31	PCI/G
SC-17704-S	10/16/1998	RADIUM-226	0.99	0.36	PCI/G
SC-17705-S	10/1/1998	RADIUM-226	1.6	0.33	PCI/G
SC-17706-S	10/1/1998	RADIUM-226	1.34.	0.25	PCI/G
SC-17707-S	10/1/1998	RADIUM-226	1.24	0.42	PCI/G
SC-17708-S	10/16/1998	RADIUM-226	1.21	0.3	PCI/G
SC-17709-S	10/1/1998	RADIUM-226	1.08	0.25	PCI/G
SC-17710-S	10/1/1998	RADIU <b>M</b> -226	1.16	0.36	PCI/G
SC-17711-S	10/1/1998	RADIUM-226	1.6	0.29	PCI/G
SC-17712-S	10/16/1998	RADIUM-226	1.34	0.39	PCI/G
SC-17713-S	10/1/1998	RADIUM-226	0.96	0.41	PCI/G
SC-17714-S	10/1/1998	RADIUM-226	1.49	0.25	PCI/G
SC-17715-S	10/1/1998	RADIUM-226	1.26	0.41	PCI/G PCI/G
SC-17716-S	10/16/1998	RADIUM-226	1.34	0.27	PCI/G
SC-17717-S	10/1/1998	RADIUM-226	1.16	0.26	PCI/G
SC-17718-S	10/1/1998	RADIUM-226	1.38	0.22	PCI/G
SC-17719-S	10/16/1998	RADIUM-226	1.01	0.31 0.27	PCI/G
SC-17720-S	10/16/1998	RADIUM-226	1.33	0.27 0.27	PCI/G
SC-17801-S	10/16/1998	RADIUM-226	1.16	0.27	PCI/G
SC-17802-S	10/16/1998	RADIUM-226	0.91 1. <b>3</b> 6	0.29	PCI/G
SC-17803-C	10/16/1998	RADIUM-226	0.95	0.3 0.33	PCI/G
SC-17803-S	10/16/1998	RADIUM-226		0.33	PCI/G
SC-17804-S	10/16/1998	RADIUM-226	1.1 1.01	0.25	PCI/G
SC-17805-S	10/16/1998	RADIUM-226	1.01 1.46	0.35	PCI/G
SC-17806-C	10/16/1998	RADIUM-226 RADIUM-226	0.87	0.23	PCI/G
SC-17806-S	10/16/1998	RADIUM-226	1.12	0.3	PCI/G
SC-17807-S	10/16/1998		0.98	0.33	PCI/G
SC-17808-S	10/16/1998	RADIUM-226	0.30	0.00	. 55

WSSRAP_ID	DATE_SAM	PARAMETER	CONC	DL	UNITS
SC-17809-S	10/16/1998	RADIUM-226	0.8	0.25	PCI/G
SC-17810-S	10/16/1998	RADIUM-226	1.26	0.29	PCI/G
SC-17811-S	10/16/1998	RADIUM-226	1	0.32	PCI/G
SC-17812-C	10/16/1998	RADIUM-226	1.36	0.34	PCI/G
SC-17812-S	10/16/1998	RADIUM-226	0.94	0.28	PCI/G
SC-17813-S	10/16/1998	RADIUM-226	1.19	0.34	PCI/G
SC-17814-S	10/16/1998	RADIUM-226	1.06	0.37	PCI/G
SC-17815-S	10/16/1998	RADIUM-226	1.15	0.31	PCI/G
SC-17816-S	10/16/1998	RADIUM-226	1.25	0.42	PCI/G
SC-17817-S	10/16/1998	RADIUM-226	1.05	0.24	PCI/G
SC-17818-C	10/16/1998	RADIUM-226	1.26	0.34	PCI/G
SC-17818-S	10/16/1998	RADIUM-226	1 06	0.27	PCI/G
SC-17819-S	10/16/1998	RADIUM-226	0.94	0.35	PCI/G
SC-17820-S	10/16/1998	RADIUM-226	1.1	0.22	PCI/G
SC-17821-S	10/16/1998	RADIUM-226	1.21	0.36	PCI/G
'SC-17822-S	10/16/1998	RADIUM-226	1.41	0.28	PCI/G
SC-17901-S	10/23/1998	RADIUM-226	1 25	0.38	PCI/G
SC-17902-S	10/23/1998	RADIUM-226	15	0.27	PCI/G
SC-17903-S	10/23/1998	RADIUM-226	1.44	0.33	PCI/G
SC-17904-S	10/23/1998	RADIUM-226	0.66	0.27	PCI/G
SC-17905-S	10/23/1998	RADIUM-226	1.36	0 36	PCI/G
SC-17906-S	10/23/1998	RADIUM-226	1.25	0.29	PCI/G
SC-17907-S	10/23/1998	RADIUM-226	1 37	0.29	PCI/G
SC-17908-S	10/23/1998	RADIUM-226	1.4	0.32	PCI/G
SC-17909-S	10/23/1998	RADIUM-226	1.15	0 36	PCI/G
SC-17910-S	10/23/1998	RADIUM-226	1.61	0 22	PCI/G
SC-17911-S	10/23/1998	RADIUM-226	0.425	0.85	PCI/G
SC-17912-S	10/23/1998	RADIUM-226	1.38	0.27	PCI/G
SC-17913-S	10/23/1998	RADIUM-226	1.59	0 36	PCI/G
SC-17914-S	10/23/1998	RADIUM-226	1.28	0.28	PCI/G
SC-17915-S	10/23/1998	RADIUM-226	1.67	0.29	PCI/G
SC-17916-S	10/23/1998	RADIUM-226	1.27	0 29	PCI/G
SC-17917-S	10/23/1998	RADIUM-226	1.24	0 36	PCI/G
SC-17918-S	10/23/1998	RADIUM-226	1.31	0.24	PCI/G
SC-17919-S	10/23/1998	RADIUM-226	1.4	0 41	PCI/G
SC-17920-S	10/23/1998	RADIUM-226	1.45	0 22	PCI/G
SC-18001-S	10/1/1998	RADIUM-226	0.84	0.38	PCI/G
SC-18002-S	10/27/1998	RADIUM-226	1.36	0.26	PCI/G
SC-18003-S	10/27/1998	RADIUM-226	1.25	0.36	PCI/G
SC-18004-S	10/27/1998	RADIUM-226	1.48	0.3	PCI/G
SC-18005-S	10/27/1998	RADIUM-226	0.92	0.37	PCI/G
SC-18006-S	10/27/1998	RADIUM-226	1 01	0.31	PCI/G
SC-18007-S	10/27/1998	RADIUM-226	1 05	0.32	PCI/G
SC-18008-S	10/27/1998	RADIUM-226	1.27	0.26	PCI/G
SC-18012-S	10/27/1998	RADIUM-226	1.27	0 3	PCI/G
SC-18013-S	10/27/1998	RADIUM-226	1.28	0.27	PCI/G
SC-18014-S	10/27/1998	RADIUM-226	1.18	0.36	PCI/G
SC-18015-S	10/27/1998	RADIUM-226	1.41	0 24	PCI/G

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SC-18016-S	10/27/1998	RADIUM-226	1.31	0.33	PCI/G
SC-18019-S	10/27/1998	RADIUM-226	1.26	0.29	PCI/G
SC-18020-S	10/27/1998	RADIUM-226	1.34	0.34	PCI/G
SC-18021-S	10/27/1998	RADIUM-226	1.27	0.24	PCI/G
SC-18022-S	10/27/1998	RADIUM-226	1.15	0.32	PCI/G
SC-18023-S	10/27/1998	RADIUM-226	1.22	0.22	PCI/G
SC-18201-S	10/27/1998	RADIUM-226	1.32	0.37	PCI/G
SC-18202-S	10/27/1998	RADIUM-226	1.38	0.23	PCI/G
SC-18203-S	10/27/1998	· RADIUM-226	1.36	0.4	PCI/G
SC-18204-S	10/27/1998	RADIUM-226	1.09	0.33	PCI/G
SC-18205-S	10/27/1998	RADIUM-226	1.11	0.31	PCI/G
SC-18206-S	10/27/1998	RADIUM-226	1.1	0.27	PCI/G
SC-18207-S	10/27/1998	RADIUM-226	1.25	.0.4	PCI/G
SC-18208-S	10/27/1998	RADIUM-226	1.32	0.33	PCI/G
SC-18209-S	10/27/1998	RADIUM-226	1.55	0.34	PCI/G
SC-18210-S	10/27/1998	RADIUM-226	1.65	0.23	PCI/G
SC-18211-S	10/27/1998	RADIUM-226	1.22	0.38	PCI/G
SC-18212-S	10/27/1998	RADIUM-226	1.3	0.23	PCI/G
SC-18213-S	10/27/1998	RADIUM-226	0.92	0.39	PCI/G
SC-18214-S	10 <i>/</i> 27/1998	RADIUM-226	1.33	0.36	PCI/G
SC-18215-S	10/27/1998	RADIUM-226	1.22	0.49	PCI/G
SC-18216-S	10/27/1998	RADIUM-226	1.36	0.32	PCI/G
SC-18217-S	10/27/1998	RADIUM-226	1.36	0.41	PCI/G
SC-18218-S	10/27/1998	RADIUM-226	1.09	0.27	PCI/G PCI/G
SC-18219-S	10/27/1998	RADIUM-226	1.34	0.3	PCI/G PCI/G
SC-18220-S	3/3/1998	RADIUM-226	1.39	0.38	PCI/G PCI/G
SC-18301-S	10/23/1998	RADIUM-226	1.07	0.36	PCI/G PCI/G
SC-18302-S	10/23/1998	RADIUM-226	1.05	0.45 0.24	PCI/G
SC-18303-S	10/23/1998	RADIUM-226	1.11		PCI/G
SC-18304-S	10/23/1998	RADIUM-226	1.03	0.33	PCI/G
SC-18305-S	10/23/1998	RADIUM-226	1.47	0.34 0.46	PCI/G
SC-18306-S	10/23/1998	RADIUM-226	1.32	0. <del>46</del> 0.26	PCI/G
SC-18307-S	10/23/1998	RADIUM-226	0.97 1.23	0.20	PCI/G
SC-18308-S	10/23/1998	RADIUM-226		0.41	PCI/G
SC-18309-S	10/23/1998	RADIUM-226	1.32 1.42	0.20	PCI/G
SC-18310-S	10/23/1998	RADIUM-226	1.42	0.44	PCI/G
SC-18311-S	10/23/1998	RADIUM-226	1.27	0.34	PCI/G
SC-18312-S	10/23/1998	RADIUM-226	1.05	0.27	PCI/G
SC-18313-S	10/23/1998	RADIUM-226	1.03	0.39	PCI/G
SC-18314-S	10/23/1998	RADIUM-226	1.18	0.27	PCI/G
SC-18315-S	10/23/1998	RADIUM-226	1.16 1.42	0.37	PÇI/G
SC-18316-S	10/23/1998	RADIUM-226	1.42	0.32	PCI/G
SC-18317-S	10/23/1998	RADIUM-226	1.41	0.28	PCI/G
SC-18318-S	10/23/1998	RADIUM-226	0.96	0.25	PCI/G
SC-18319-S	10/23/1998	RADIUM-226	1.36	0.33	PCI/G
SC-18320-S	10/27/1998	RADIUM-226	1.30 1.49	0.26	PCI/G
SC-18321-S	10/23/1998	RADIUM-226		0.23	PCI/G
SC-18322-S	10/23/1998	RADIUM-226	1.04	0.23	1 01/0

WSSRAP_ID	DATE_SAM	PARAMETER	CONC	DL	UNITS
SC-18323-S	10/23/1998	RADIUM-226	1.5	0.25	PCI/G
SC-18324-S	4/3/1998	RADIUM-226	1.16	0.31	PCI/G
SC-18325-S	4/3/1998	RADIUM-226	1.2	0.24	PCI/G
SC-18326-S	4/3/1998	RADIUM-226	1 66	0.34	PCI/G
SC-18401-S	10/27/1998	RADIUM-226	1 41	0.21	PCI/G
SC-18402-S	3/3/1998	RADIUM-226	1.53	0.25	PCI/G
SC-18403-S	3/3/1998	RADIUM-226	1.33	03	PCI/G
SC-18404-S	4/3/1998	RADIUM-226	1.22	0.27	PCI/G
SC-18405-S	4/3/1998	RADIUM-226	1.01	0 35	PCI/G
SC-18406-S	4/3/1998	RADIUM-226	1.48	0.28	PCI/G
SC-18407-S	3/3/1998	RADIUM-226	1.58	0.26	PCI/G
SC-18408-S	3/3/1998	RADIUM-226	1.52	03	PCI/G
SC-18409-S	3/3/1998	RADIUM-226	1.3	03	PCI/G
SC-18410-S	4/3/1998	RADIUM-226	1.41	0.27	PCI/G
SC-18411-S	4/3/1998	RADIUM-226	1.24	0.24	PCI/G
SC-18412-S	4/3/1998	RADIUM-226	1.05	0.25	PCI/G
SC-18413-S	3/3/1998	RADIUM-226	1.15	0 34	PCI/G
SC-18414-S	3/3/1998	RADIUM-226	1.13	0 32	PCI/G
SC-18415-S	3/3/1998	RADIUM-226	1.31	0 45	PCI/G
SC-18416-S	3/3/1998	RADIUM-226	1.09	0.27	PCI/G
SC-18417-S	4/3/1998	RADIUM-226	1.26	0 31	PCI/G
SC-18418-S	4/3/1998	RADIUM-226	1.53	0 38	PCI/G
SC-18419-S	3/3/1998	RADIUM-226	1.9	0 36	PCI/G
SC-18420-S	3/3/1998	RADIUM-226	1.45	0.29	PCI/G
SC-18421-S	3/3/1998	RADIUM-226	1.29	0 35	PCI/G
SC-18422-S	3/3/1998	RADIUM-226	1 61	03	PCI/G
SC-18423-S	4/1/1998	RADIUM-226	1.12	0 29	PCI/G
SC-18424-S	4/3/1998	RADIUM-226	1 65	0 24	PCI/G
SC-18502-S	10/27/1998	RADIUM-226	1.19	0 34	PCI/G
SC-18503-S	3/3/1998	RADIUM-226	1 47	0 29	PCI/G
SC-18504-S	3/3/1998	RADIUM-226	1.41	0.3	PCI/G
SC-18509-S	3/3/1998	RADIUM-226	0.96	0.35	PCI/G
SC-18510-S	3/3/1998	RADIUM-226	1	0.24	PCI/G
SC-18516-S	4/1/1998	RADIUM-226	1.9	0.29	PCI/G
SC-18520-S	4/1/1998	RADIUM-226	1 62	0 36	PCI/G
SC-18521-S	4/1/1998	RADIUM-226	1.07	0 28	PCI/G
SC-18601-S	4/1/1998	RADIUM-226	1.65	0 36	PCI/G
SC-18602-S	4/1/1998	RADIUM-226	1.28	0.32	PCI/G
SC-18603-S	4/1/1998	RADIUM-226	1.17	0.26	PCI/G
SC-18604-S	4/1/1998	RADIUM-226	1 26	0 32	PCI/G
SC-18605-S	4/1/1998	RADIUM-226	1.21	0.23	PCI/G
SC-18606-S	4/3/1998	RADIUM-226	1.64	0 42	PCI/G
SC-18607-S	4/1/1998	RADIUM-226	1 06	0 42	PCI/G
SC-18608-S	4/1/1998	RADIUM-226	1.05	0 26	PCI/G
SC-18609-S	4/1/1998	RADIUM-226	0.86	0 33	PCI/G
SC-18610-S	4/1/1998	RADIUM-226	1 01	0.24	PCI/G
SC-18611-S	4/1/1998	RADIUM-226	1 43	0.38	PCI/G
SC-18612-S	4/3/1998	RADIUM-226	1.37	0 26	PCI/G

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SC-18613-		RADIUM-226	1.17	0.29	PCI/G
SC-18614-	S 4/1/1998	RADIUM-226	0.91	0.26	PCI/G
SC-18615-	S 4/1/1998	RADIUM-226	0.84	0.28	PCI/G
SC-18616-	S 4/1/1998	RADIUM-226	0.79	0.4	PCI/G
SC-18617-	S 4/1/1998	RADIUM-226	1.37	0.21	PCI/G
SC-18618-	S 4/3/1998	RADIUM-226	1.26	0.27	PCI/G
SC-18619-	S 4/1/1998	RADIUM-226	1.69	0.38	PCI/G
SC-18620-	S 4/1/1998	RADIUM-226	1.59	0.17	PCI/G
SC-18621-	S 3/16/1998	RADIUM-226	1.39	0.35	PCI/G
SC-18622-	S 3/16/1998	RADIU <b>M-</b> 226	1.41	0.26	PCI/G
SC-18702-	S 3/16/1998	RADIUM-226	1.29	0.36	PCI/G
SC-18703-		RADIUM-226	1.09	0.25	PCI/G
SC-18704-	S 3/16/1998	RADIUM-226	1.35	0.28	PCI/G
SC-18705-	S 3/16/1998	RADIUM-226	1.6	0.29	PCI/G
SC-18706-	·C 3/16/1998	RADIUM-226	1.18	0.42	PCI/G
SC-18706-		RADIUM-226	1.19	0.41	PCI/G
SC-18805-		RADIUM-226	1.41	0.22	PCI/G
SC-18809-		RADIUM-226	1.39	0.37	PCI/G
SC-18810-		RADIUM-226	1.15	0.24	PCI/G
SC-18811-		RADIUM-226	0.73	0.35	PCI/G
SC-18812-		RADIUM-226	0.81	0.26	PCI/G
SC-18813-		RADIUM-226	1.09	0.27	PCI/G PCI/G
SC-18817-		RADIUM-226	1.46	0.3	PCI/G
SC-18818-		RADIUM-226	1.51	0.39	PCI/G
SC-18819-		RADIUM-226	1.26	0.28 0.23	PCI/G
SC-18820-		RADIUM-226	0.96	0.23	PCI/G
SC-18821-		RADIUM-226	0.97	0.30	PCI/G
SC-39601-		RADIUM-226	0.8	0.22	PCI/G
SC-39602-		RADIUM-226	0.82	0.27	PCI/G
SC-39603-		RADIUM-226	0.72	0.26	PCI/G
SC-39604-		RADIUM-226	0.79 0.67	0.20	PCI/G
SC-39605-		RADIUM-226	0.62	0.25	PCI/G
SC-39606-		RADIUM-226	0.82	0.23	PCI/G
SC-39607-		RADIUM-226	0.68	0.24	PCI/G
SC-39608		RADIUM-226 RADIUM-226	0.92	0.29	PCI/G
SC-39609		•	0.53	0.23	PCI/G
SC-39610-		RADIUM-226 RADIUM-226		0.26	PCI/G
SC-39611		RADIUM-226		0.27	PCI/G
SC-39612		RADIUM-228		0.5	PCI/G
SC-17002		RADIUM-228		0.45	PCI/G
SC-17003		RADIUM-228		0.52	PCI/G
SC-17004		RADIUM-228		0.32	PCI/G
SC-17005		RADIUM-228		0.58	PCI/G
SC-17007		RADIUM-228		0.41	PCI/G
SC-17008		RADIUM-228		0.34	PCI/G
SC-17009		RADIUM-228		0.49	PCI/G
SC-17010		RADIUM-228		0.48	PCI/G
SC-17011	-C 9/29/1998	LYDIOM-550	1.43	J. 10	

WSSRAP_ID	DATE_SAM	PARAMETER	CONC	DL	UNITS
SC-17012-S	9/29/1998	RADIUM-228	0.565	1 13	PCI/G
SC-17013-S	9/29/1998	RADIUM-228	1.04	0 46	PCI/G
SC-17014-S	9/29/1998	RADIUM-228	0.585	1.17	PCI/G
SC-17015-S	9/29/1998	RADIUM-228	1.34	0 36	PCI/G
SC-17017-S	9/29/1998	RADIUM-228	1.58	0 56	PCI/G
SC-17018-S	9/29/1998	RADIUM-228	1.22	0.38	PCI/G
SC-17018-S-RS	10/15/1998	RADIUM-228	1.24	. 0.56	PCI/G
SC-17019-S	9/29/1998	RADIUM-228	1.08	0.44	PCI/G
SC-17020-S	9/29/1998	RADIUM-228	1.25	0 45	PCI/G
SC-17021-C	9/29/1998	RADIUM-228	1.25	0.54	PCI/G
SC-17022-S	9/29/1998	RADIUM-228	1.24	0.3	PCI/G
SC-17023-S	9/29/1998	RADIUM-228	1.45	0 57	PCI/G
SC-17024-S	9/29/1998	RADIUM-228	1 37	0.41	PCI/G
SC-17025-S	9/29/1998	RADIUM-228	0.96	0.36	PCI/G
SC-17101-S	9/29/1998	RADIUM-228	1 14	0 66	PCI/G
SC-17102-S	9/29/1998	RADIUM-228	1 31	0 28	PCI/G
SC-17103-S	9/29/1998	RADIUM-228	0.625	1 25	PCI/G
SC-17104-S	9/29/1998	RADIUM-228	1 25	0.46	PCI/G
SC-17105-S	9/29/1998	RADIUM-228	1 31	0 36	PCI/G
SC-17106-S	9/29/1998	RADIUM-228	1.26	0 45	PCI/G
SC-17107-S	9/29/1998	RADIUM-228	1	0 49	PCI/G
SC-17108-S	9/29/1998	RADIUM-228	1 12	0 5	PCI/G
SC-17109-S	9/29/1998	RADIUM-228	1.36	0.7	PCI/G
SC-17110-S	9/29/1998	RADIUM-228	1 21	0 33	PCI/G
SC-17111-S	9/29/1998	RADIUM-228	1 27	0 53	PCI/G
SC-17112-S	9/29/1998	RADIU <b>M-228</b>	1 25	0 32	PCI/G
SC-17113-S	9/29/1998	RADIUM-228	1 63	0 5	PCI/G
SC-17114-S	9/29/1998	RADIUM-228	1.44	0 33	PCI/G
SC-17115-S	9/29/1998	RADIUM-228	1 29	0.48	PCI/G
SC-17116-S	9/29/1998	RADIUM-228	1 01	0 49	PCI/G
SC-17117-S	9/29/1998	RADIUM-228	1 45	0 35	PCI/G
SC-17118-S	9/29/1998	RADIUM-228	1 27	0 33	PCI/G
SC-17119-S	9/29/1998	RADIUM-228	1 34	0 17	PCI/G
SC-17120-S	9/29/1998	RADIUM-228	1.28	0 3	PCI/G
SC-17121-S	9/29/1998	RADIUM-228	1 37	0 61	PCI/G
SC-17122-S	9/29/1998	RADIUM-228	1.24	0 37	PCI/G
SC-17123-S	9/29/1998	RADIUM-228	0 61	1.22	PCI/G
SC-17124-S	9/29/1998	RADIUM-228	1 26	0.42	PCI/G
SC-17201-S	9/29/1998	RADIUM-228	1.08	0.57	PCI/G
SC-17202-S	9/29/1998	RADIUM-228	1 15	0 41	PCI/G
SC-17203-C	9/29/1998	RADIUM-228	1.21	0.42	PCI/G
SC-17203-S	9/29/1998	RADIUM-228	1 21	0.46	PCI/G
SC-17204-S	9/29/1998	RADIUM-228	1 37	0.66	PCI/G
SC-17205-C	9/29/1998	RADIUM-228	1 16	0.36	PCI/G
SC-17205-S	9/29/1998	RADIUM-228	1 58	0.37	PCI/G
SC-17206-S	9/29/1998	RADIUM-228	1.22	0 36	PCI/G
SC-17207-S	9/29/1998	RADIUM-228	1.22	0.27	PCI/G
SC-17208-S	9/29/1998	RADIUM-228	1 04	0.47	PCI/G

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SC-17209-S	9/29/1998	RADIUM-228	1.17	0.53	PCI/G
SC-17210-S	9/29/1998	RADIUM-228	1.44	0.43	PCI/G
SC-17211-S	9/29/1998	RADIUM-228	1.42	0.36	PCI/G
SC-17212-S	9/29/1998	RADIUM-228	0.585	1.17	PCI/G
SC-17213-S	9/29/1998	RADIUM-228	1.21	0.38	PCI/G
SC-17214-C	9/29/1998	RADIUM-228	0.9	0.48	PCI/G
SC-17214-S	9/29/1998	RADIUM-228	1.33	0.43	PCI/G
SC-17215-S	9/29/1998	RADIUM-228	1.2	0.49	PCI/G
SC-17216-S	9/29/1998	RADIUM-228	1.06	0.45	PCI/G
SC-17217-S	9/29/1998	RADIUM-228	1.08	0.76	PCI/G
SC-17218-S	9/29/1998	RADIUM-228	0.82	0.38	PCI/G
SC-17219-S	9/29/1998	RADIUM-228	1.01	0.27	PCI/G
SC-17220-S	9/29/1998	RADIUM-228	0.94	0.35	PCI/G
SC-17221-C	9/29/1998	RADIUM-228	0.565	1.13	PCI/G
SC-17221-S	9/29/1998	RADIUM-228	1.44	0.39	PCI/G
SC-17222-S	9/29/1998	RADIUM-228	1.1	0.61	PCI/G
SC-17223-S	9/29/1998	RADIUM-228	1.28	0.32	PCI/G
SC-17224-S	9/29/1998	RADIUM-228	1.56	0.45	PCI/G
SC-17225-S	9/29/1998	RADIUM-228	1.16	0.25	PCI/G
SC-17226-S	9/29/1998	RADIUM-228	1.09	0.44	PCI/G
SC-17227-S	9/29/1998	RADIUM-228	1.34	0.4	PCI/G
SC-17228-S	9/29/1998	RADIUM-228	1.25	0.47	PCI/G
SC-17301-S	9/29/1998	RADIUM-228	1.36	0.37	PCI/G
SC-17302-S	9/30/1998	RADIUM-228	0.65	1.3	PCI/G
SC-17303-S	9/30/1998	RADIUM-228	1.09	0.39	PCI/G
SC-17304-S	9/30/1998	RADIUM-228	1.24	0.52	PCI/G
SC-17305-S	9/30/1998	RADIUM-228	1.5	0.39	PCI/G
SC-17306-S	9/30/1998	RADIUM-228	1.56	0.39	PCI/G
SC-17307-S	9/30/1998	RADIUM-228	1.55	0.29	PCI/G
SC-17308-S	9/29/1998	RADIUM-228	1.38	0.4	PCI/G
SC-17309-S	9/30/1998	RADIUM-228	1.04	0.42	PCI/G
SC-17310-S	9/30/1998	RADIUM-228	1.4	0.39	PCI/G
SC-17311-S	9/30/1998	RADIUM-228	0.66	1.32	PCI/G
SC-17312-S	9/30/1998	RADIUM-228	1.47	0.58	PCI/G
SC-17313-S	9/30/1998	RADIUM-228	1.31	0.42	PCI/G
SC-17314-S	9/30/1998	RADIUM-228	1.51	0.35	PCI/G
SC-17315-S	9/30/1998	RADIUM-228	1.26	0.44	PCI/G
SC-17316-S	9/30/1998	RADIUM-228	1.08	0.5	PCI/G PCI/G
SC-17317-S	9/30/1998	RADIUM-228	1.29	0.42	PCI/G PCI/G
SC-17318-S	9/30/1998	RADIUM-228	1.7	0.54	PCI/G
SC-17319-S	10/16/1998	RADIUM-228	1.26	0.45	PCI/G
SC-17320-S	10/16/1998	RADIUM-228	1.42	0.42	PCI/G
SC-17321-S	10/16/1998	RADIUM-228	1.38	0.36	PCI/G PCI/G
SC-17402-S	9/30/1998	RADIUM-228	1.51	0.42	PCI/G PCI/G
SC-17403-S	9/30/1998	RADIUM-228	0.565	1.13	PCI/G
SC-17404-S	9/30/1998	RADIUM-228	1.45	0.32	PCI/G
SC-17405-S	9/30/1998	RADIUM-228	1.41	0.64	PCI/G
SC-17407-S	9/30/1998	RADIUM-228	1.23	0.4	FUIG

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SC-17408-S	9/30/1998	RADIUM-228	1 18	0.63	PCI/G
SC-17409-S	9/30/1998	RADIUM-228	1.15	0 42	PCI/G
SC-17410-S	9/30/1998	RADIUM-228	1.16	0.57	PCI/G
SC-17411-S	9/30/1998	RADIUM-228	1 39	0.47	PCI/G
SC-17412-S	9/30/1998	RADIUM-228	1.27	0.6	PCI/G
SC-17413-S	9/30/1998	RADIUM-228	1.34	0.32	PCI/G
SC-17414-S	9/30/1998	RADIUM-228	1.23	0.51	PCI/G
SC-17416-S	9/30/1998	RADIUM-228	1.31	0.4	PCI/G
SC-17417-S	9/30/1998	RADIUM-228	1.31	0.46	PCI/G
SC-17418-S	9/30/1998	RADIUM-228	1.55	0.46	PCI/G
SC-17419-S	9/30/1998	RADIUM-228	1.19	0.6	PCI/G
SC-17420-S	9/30/1998	RADIUM-228	1.39	0.4	PCI/G
SC-17421-S	9/30/1998	RADIUM-228	0 595	1.19	PCI/G
SC-17422-S	9/30/1998	RADIUM-228	1.48	0.42	PCI/G
SC-17423-S	9/30/1998	RADIUM-228	0.63	1.26	PCI/G
SC-17501-C	9/30/1998	RADIUM-228	1.15	0 4	PCI/G
SC-17502-S	9/30/1998	RADIUM-228	0.62	1 24	PCI/G
SC-17503-S	9/30/1998	RADIUM-228	1.09	0.39	PCI/G
SC-17504-S	9/30/1998	RADIUM-228	0.585	1.17	PCI/G
SC-17506-S	9/30/1998	RADIUM-228	1.07	0 36	PCI/G
SC-17507-S	9/30/1998	RADIUM-228	1.51	0 41	PCI/G
SC-17508-S	9/30/1998	RADIUM-228	1.11	0 41	PCI/G
SC-17509-C	9/30/1998	RADIUM-228	1 75	0 5	PCI/G
SC-17510-S	9/30/1998	RADIUM-228	1 27	0.45	PCI/G
SC-17511-S	9/30/1998	RADIUM-228	1.41	0 48	PCI/G
SC-17512-S	9/30/1998	RADIUM-228	1.45	0 36	PCI/G
SC-17514-S	9/30/1998	RADIUM-228	0.58	1.16	PCI/G
SC-17515-S	9/30/1998	RADIUM-228	1.27	0.41	PCI/G
SC-17516-S	9/30/1998	RADIUM-228	1.23	0.62	PCI/G
SC-17518-S	9/30/1998	RADIUM-228	1 51	0.36	PCI/G
SC-17519-S	9/30/1998	RADIUM-228	1.53	0.38	PCI/G
SC-17520-S	9/30/1998	RADIUM-228	1.2	0.37	PCI/G
SC-17523-S	9/30/1998	RADIUM-228	0.605	1 21	PCI/G
SC-17524-S	9/30/1998	RADIUM-228	1 28	0 37	PCI/G
SC-17601-S	10/1/1998	RADIUM-228	1 4	0.53	PCI/G
SC-17602-S	10/1/1998	RADIUM-228	1.58	0.48	PCI/G
SC-17603-S	10/1/1998	RADIUM-228	1.33	0 76	PCI/G
SC-17604-S	10/1/1998	RADIUM-228	1.6	0.29	PCI/G
SC-17605-S	10/1/1998	RADIUM-228	1.29	0.53	PCI/G
SC-17606-S	10/1/1998	RADIUM-228	1.36	0 43	PCI/G
SC-17607-S	10/1/1998	RADIUM-228	1.51	0.65	PCI/G
SC-17608-S	10/1/1998	RADIUM-228	1.31	0 48	PCI/G
SC-17609-S	10/1/1998	RADIUM-228	1.21	0 57	PCI/G
SC-17610-S	10/1/1998	RADIUM-228	1.24	0.46	PCI/G
SC-17611-S	10/1/1998	RADIUM-228 .	1.32	0 65	PCI/G
SC-17612-S	10/1/1998	RADIUM-228	1.23	0 43	PCI/G
SC-17613-S	10/1/1998	RADIUM-228	1.17	0 65	PCI/G
SC-17614-S	10/1/1998	RADIUM-228	1 42	0 43	PCI/G

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SC-17615-S	10/1/1998	RADIUM-228	0.57	1.14	PCI/G
SC-17616-S	10/1/1998	RADIUM-228	1.31	0.44	PCI/G
SC-17617-S	10/1/1998	RADIUM-228	1.3	0.47	PCI/G
SC-17618-S	10/1/1998	RADIUM-228	1.29	0.38	PCI/G
SC-17619-S	10/1/1998	RADIUM-228	1.29	0.59	PCI/G
SC-17620-S	10/1/1998	RADIUM-228	1.3	0.45	PCI/G
SC-17701-S	9/30/1998	RADIUM-228	1.22	0.42	PCI/G
SC-17702-S	10/1/1998	RADIUM-228	1.01	0.54	PCI/G
SC-17703-S	10/1/1998	· RADIUM-228	1.32	0.41	PCI/G
SC-17704-S	10/16/1998	RADIUM-228	1.35	0.43	PCI/G
SC-17705-S	10/1/1998	RADIUM-228	1.28	0.58	PCI/G
SC-17706-S	10/1/1998	RADIUM-228	1.06	0.33	PCI/G
SC-17707-S	10/1/1998	RADIUM-228	1.27	0.27	PCI/G
SC-17708-S	10/16/1998	RADIUM-228	1.29	0.33	PCI/G
SC-17709-S	10/1/1998	RADIUM-228	1.13	0.36	PCI/G
SC-17710-S	10/1/1998	RADIUM-228	0.595	1.19	PCI/G
SC-17711-S	10/1/1998	RADIUM-228	1.3	0.36	PCI/G
SC-17712-S	10/16/1998	RADIUM-228	1.29	0.76	PCI/G
SC-17713-S	10/1/1998	RADIUM-228	1.04	0.47	PCI/G
SC-17714-S	10/1/1998	RADIUM-228	0.98	0.47	PCI/G
SC-17715-S	10/1/1998	RADIUM-228	1.07	0.58	PCI/G
SC-17716-S	10/16/1998	RADIUM-228	1.49	0.42	PCI/G
SC-17717-S	10/1/1998	RADIUM-228	1.19	0.35	PCI/G
SC-17718-S	10/1/1998	RADIUM-228	1.12	0.35	PCI/G
SC-17719-S	10/16/1998	RADIUM-228	1.56	0.44	PCI/G
SC-17720-S	10/16/1998	RADIUM-228	1.38	0.4	PCI/G
SC-17801-S	10/16/1998	RADIUM-228	1.44	0.37	PCI/G
SC-17802-S	10/16/1998	RADIUM-228	1.38	0.53	PCI/G
SC-17803-C	10/16/1998	RADIUM-228	1.22	0.42	PCI/G
SC-17803-S	10/16/1998	RADIUM-228	0.65	1.3	PCI/G
SC-17804-S	10/16/1998	RADIUM-228	1.32	0.31	PCI/G
SC-17805-S	10/16/1998	RADIUM-228	1.54	0.57	PCI/G
SC-17806-C	10/16/1998	RADIUM-228	1.32	0.35	PCI/G
SC-17806-S	10/16/1998	RADIUM-228	1.27	0.63	PCI/G
SC-17807-S	10/16/1998	RADIUM-228	1.5	0.42	PCI/G
SC-17808-S	10/16/1998	RADIUM-228	1.14	0.6	PCI/G
SC-17809-S	10/16/1998	RADIUM-228	1.48	0.33	PCI/G
SC-17810-S	10/16/1998	RADIUM-228	1.36	0.47	PCI/G
SC-17811-S	10/16/1998	RADIUM-228	1.26	0.53	PCI/G
SC-17812-C	10/16/1998	RADIUM-228	1.44	0.35	PCI/G
SC-17812-S	10/16/1998	RADIUM-228	1.21	0.58	PCI/G
SC-17813-S	10/16/1998	RADIUM-228	1.4	0.39	PCI/G
SC-17814-S	10/16/1998	RADIUM-228	1.41	0.53	PCI/G
SC-17815-S	10/16/1998	RADIUM-228	1.2	0.3	PCI/G
SC-17816-S	10/16/1998	RADIUM-228	1.1	0.55	PCI/G
SC-17817-S	10/16/1998	RADIUM-228	1.34	0.33	PCI/G
SC-17818-C	10/16/1998	RADIUM-228	1.63	0.4	PCI/G
SC-17818-S	10/16/1998	RADIUM-228	1.29	0.44	PCI/G

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SC-17819-S	10/16/1998	RADIUM-228	0.585	1.17	PCI/G
SC-17820-S	10/16/1998	RADIUM-228	1.49	0.48	PCI/G
SC-17821-S	10/16/1998	RADIUM-228	1.53	0.37	PCI/G
SC-17822-S	10/16/1998	RADIUM-228	1.15	0.38	PCI/G
SC-17901-S	10/23/1998	RADIUM-228	1.46	0.52	PCI/G
SC-17902-S	10/23/1998	RADIUM-228	1.07	0.41	PCI/G
SC-17903-S	10/23/1998	RADIUM-228	1.12	0.49	PCI/G
SC-17904-S	10/23/1998	RADIUM-228	0.52	0.31	PCI/G
SC-17905-S	10/23/1998	RADIUM-228	1.21	0 61	PCI/G
SC-17906-S	10/23/1998	RADIUM-228	1.16	0.46	PCI/G
SC-17907-S	10/23/1998	RADIUM-228	1.59	0.6	PCI/G
SC-17908-S	10/23/1998	RADIUM-228	1.39	0.41	PCI/G
SC-17909-S	10/23/1998	RADIUM-228	1 21	0.44	PCI/G
SC-17910-S	10/23/1998	RADIUM-228	1 56	0 44	PCI/G
SC-17911-S	10/23/1998	RADIUM-228	0.55	11	PCI/G
SC-17912-S	10/23/1998	RADIUM-228	1.23	0.37	PCI/G
SC-17913-S	10/23/1998	RADIUM-228	1 06	05	PCI/G
SC-17914-S	10/23/1998	RADIUM-228	1.19	0.39	PCI/G
SC-17915-S	10/23/1998	RADIUM-228	1.02	0 45	PCI/G
SC-17916-S	10/23/1998	RADIUM-228	1.2	0.42	PCI/G
SC-17917-S	10/23/1998	RADIUM-228	1 03	0 55	PCI/G
SC-17918-S	10/23/1998	RADIUM-228	1.18	0 32	PCI/G
SC-17919-S	10/23/1998	RADIUM-228	0.64	1 28	PCI/G
SC-17920-S	10/23/1998	RADIUM-228	12	0.41	PCI/G
SC-18001-S	10/1/1998	RADIUM-228	0 94	0 63	PCI/G
SC-18002-S	10/27/1998	RADIUM-228	12	0.38	PCI/G
SC-18003-S	10/27/1998	RADIUM-228	1 53	0 54	PCI/G
SC-18004-S	10/27/1998	RADIUM-228	1.28	0 36	PCI/G
SC-18005-S	10/27/1998	RADIUM-228	1.36	0 51	PCI/G
SC-18006-S	10/27/1998	RADIUM-228	1 08	0.38	PCI/G
SC-18007-S	10/27/1998	RADIUM-228	1 21	0 58	PCI/G
SC-18008-S	10/27/1998	RADIUM-228	1.25	0 34	PCI/G
SC-18012-S	10/27/1998	RADIUM-228	1 13	0 54	PCI/G
SC-18013-S	10/27/1998	RADIUM-228	1.4	0 36	PCI/G
SC-18014-S	10/27/1998	RADIUM-228	0.96	0 56	PCI/G
SC-18015-S	10/27/1998	RADIUM-228	15	0.35	PCI/G
SC-18016-S	10/27/1998	RADIUM-228	1 16	0 53	PCI/G
SC-18019-S	10/27/1998	RADIUM-228	1.2	0 42	PCI/G
SC-18020-S	10/27/1998	RADIUM-228	0.555	1 11	PCI/G
SC-18021-S	10/27/1998	RADIUM-228	1.23	0 37	PCI/G
SC-18022-S	10/27/1998	RADIUM-228	0.615	1 23	PCI/G
SC-18023-S	10/27/1998	RADIUM-228	1.51	0 39	PCI/G
SC-18201-S	10/27/1998	RADIUM-228	0.59	1 18	PCI/G
SC-18202-S	10/27/1998	RADIUM-228	1.48	0.45	PCI/G
SC-18203-S	10/27/1998	RADIUM-228	1.47	0.62	PCI/G
SC-18204-S	10/27/1998	RADIUM-228	1.09	0 37	PCI/G
SC-18205-S	10/27/1998	RADIUM-228	1.18	0 67	PCI/G
SC-18206-S	10/27/1998	RADIUM-228	1.32	0 41	PCI/G

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SC-18207-S	10/27/1998	RADIUM-228	1.23	0.43	PCI/G
SC-18208-S	10/27/1998	RADIUM-228	1.5	0.34	PCI/G
SC-18209-S	10/27/1998	RADIUM-228	0.59	1.18	PCI/G
SC-18210-S	10/27/1998	RADIUM-228	1.11	0.41	PCI/G
SC-18211-S	10/27/1998	RADIUM-228	0.635	1.27	PCI/G
SC-18212-S	10/27/1998	RADIUM-228	1.16	0.4	PCI/G
SC-18213-S	10/27/1998	RADIUM-228	1.34	0.63	PCI/G
SC-18214-S	10/27/1998	RADIUM-228	1.25	0.3	PCI/G
SC-18215-S	10/27/1998	RADIUM-228	0.64	1.28	PCI/G
SC-18216-S	10/27/1998	RADIUM-228	1.27	0.38	PCI/G
SC-18217-S	10/27/1998	RADIUM-228	1.14	0.24	PCI/G
SC-18218-S	10/27/1998	RADIUM-228	1.42	0.34	PCI/G
SC-18219-S	10/27/1998	RADIUM-228	1.31	0.42	PCI/G
SC-18220-S	3/3/1998	RADIUM-228	1.22	0.44	PCI/G
SC-18301-S	10/23/1998	RADIUM-228	1.23	0.27	PCI/G
SC-18302-S	10/23/1998	RADIUM-228	1.29	0.37	PCI/G
SC-18303-S	10/23/1998	RADIUM-228	1.62	0.4	PCI/G
SC-18304-S	10/23/1998	RADIUM-228	1	0.45	PCI/G
SC-18305-S	10/23/1998	RADIUM-228	1.31	0.41	PCI/G
SC-18306-S	10/23/1998	RADIUM-228	1.42	0.64	PCI/G
SC-18307-S	10/23/1998	RADIUM-228	1.39	0.45	PCI/G
SC-18308-S	10/23/1998	RADIUM-228	0.56	1.12	PCI/G
SC-18309-S	10/23/1998	RADIUM-228	1.38	0.39	PCI/G
SC-18310-S	10/23/1998	RADIUM-228	0.655	1.31	PCI/G
SC-18311-S	10/23/1998	RADIUM-228	1.13	0.47	PCI/G
SC-18312-S	10/23/1998	RADIUM-228	1.2	0.53	PCI/G
SC-18313-S	10/23/1998	RADIUM-228	1.08	0.34	PCI/G
SC-18314-S	10/23/1998	RADIUM-228	1.24	0.54	PCI/G
SC-18315-S	10/23/1998	RADIUM-228	1.36	0.4	PCI/G
SC-18316-S	10/23/1998	RADIUM-228	1.53	0.41	PCI/G
SC-18317-S	10/23/1998	RADIUM-228	1.26	0.27	PCI/G
SC-18318-S	10/23/1998	RADIUM-228	1.08	0.34	PCI/G
SC-18319-S	10/23/1998	RADIUM-228	0.83	0.61	PCI/G
SC-18320-S	10/27/1998	RADIUM-228	1.23	0.37	PCI/G
SC-18321-S	10/23/1998	RADIUM-228	1.38	0.5	PCI/G PCI/G
SC-18322-S	10/23/1998	RADIUM-228	0.545	1.09	PCI/G PCI/G
SC-18323-S	10/23/1998	RADIUM-228	1.31	0.38	PCI/G PCI/G
SC-18324-S	4/3/1998	RADIUM-228	0.97	0.65	PCI/G PCI/G
SC-18325-S	4/3/1998	RADIUM-228	1	0.41	PCI/G PCI/G
SC-18326-S	4/3/1998	RADIUM-228	1.36	0.53	PCI/G PCI/G
SC-18401-S	10/27/1998	RADIUM-228	1.55	0.18	PCI/G PCI/G
SC-18402-S	3/3/1998	RADIUM-228	1.03	0.3	PCI/G
SC-18403-S	3/3/1998	RADIUM-228	0.61	1.22	PCI/G
SC-18404-S	4/3/1998	RADIUM-228	1.01	0.35	PCI/G
SC-18405-S	4/3/1998	RADIUM-228	0.56	1.12 0.46	PCI/G
SC-18406-S	4/3/1998	RADIUM-228	1.41	0.46 0.28	PCI/G
SC-18407-S	3/3/1998	RADIUM-228	1.4	0.28 1.28	PCI/G
SC-18408-S	3/3/1998	RADIUM-228	0.64	1.20	FOI/G

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SC-18409-S	3/3/1998	RADIUM-228	1.12	0.43	PCI/G
SC-18410-S	4/3/1998	RADIUM-228	0.48	0.96	PCI/G
SC-18411-S	4/3/1998	RADIUM-228	1.21	0.48	PCI/G
SC-18412-S	4/3/1998	RADIUM-228	0.575	1 15	PCI/G
SC-18413-S	3/3/1998	RADIUM-228	0.555	1.11	PCI/G
SC-18414-S	3/3/1998	RADIUM-228	1	0.39	PCI/G
SC-18415-S	3/3/1998	RADIUM-228	1.25	0 64	PCI/G
SC-18416-S	3/3/1998	RADIUM-228	1 24	0.43	PCI/G
SC-18417-S	4/3/1998	RADIUM-228	1.15	0.3	PCI/G
SC-18418-S	4/3/1998	RADIUM-228	1 59	0.55	PCI/G
SC-18419-S	3/3/1998	RADIUM-228	1.46	0.63	PCI/G
SC-18420-S	3/3/1998	RADIUM-228	1.33	0 44	PCI/G
SC-18421-S	3/3/1998	RADIUM-228	0.605	1.21	PCI/G
SC-18422-S	3/3/1998	RADIUM-228	1 15	0.34	PCI/G
SC-18423-S	4/1/1998	RADIUM-228	1 19	0 53	PCI/G
SC-18424-S	4/3/1998	RADIUM-228	1 27	0.52	PCI/G
SC-18502-S	10/27/1998	RADIUM-228	1.17	0.47	PCI/G
SC-18503-S	3/3/1998	RADIUM-228	12	0 53	PCI/G
SC-18504-S	3/3/1998	RADIUM-228	1.19	0.38	PCI/G
SC-18509-S	3/3/1998	RADIUM-228	0.56	1.12	PCI/G
SC-18510-S	3/3/1998	RADIUM-228	0.93	0 32	PCI/G
SC-18516-S	4/1/1998	RADIUM-228	1 18	0 41	PCI/G
SC-18520-S	4/1/1998	RADIUM-228	1.09	0.46	PCI/G
SC-18521-S	4/1/1998	RADIUM-228	1.17	0 5	PCI/G
SC-18601-S	4/1/1998	RADIUM-228	1.24	0 56	PCI/G
SC-18602-S	4/1/1998	RADIUM-228	1.22	0 34	PCI/G
SC-18603-S	4/1/1998	RADIUM-228	1.42	0.31	PCI/G
SC-18604-S	4/1/1998	RADIUM-228	1 44	0 65	PCI/G
SC-18605-S	4/1/1998	RADIUM-228	1 3	0.36	PCI/G
SC-18606-S	4/3/1998	RADIUM-228	1 29	0 58	PCI/G
SC-18607-S	4/1/1998	RADIUM-228	1.47	0 59	PCI/G
SC-18608-S	4/1/1998	RADIUM-228	1 24	0 26	PCI/G
SC-18609-S	4/1/1998	RADIUM-228	0.6	12	PCI/G
SC-18610-S	4/1/1998	RADIUM-228	1.33	0 42	PCI/G
SC-18611-S	4/1/1998	RADIUM-228	1 16	0.63	PCI/G
SC-18612-S	4/3/1998	RADIUM-228	1.08	0 43	PCI/G
SC-18613-S	4/1/1998	RADIUM-228	1.19	0 36	PCI/G
SC-18614-S	4/1/1998	RADIUM-228	0.85	0 46	PCI/G
SC-18615-S	4/1/1998	RADIUM-228	1.36	0.34	PCI/G
SC-18616-S	4/1/1998	RADIUM-228	1 23	0.62	PCI/G
SC-18617-S	4/1/1998	RADIUM-228	1 39	0 47	PCI/G
SC-18618-S	4/3/1998	RADIUM-228	0.56	1.12	PCI/G
SC-18619-S	4/1/1998	RADIUM-228	1 47	0.63	PCI/G
SC-18620-S	4/1/1998	RADIUM-228	0.6	12	PCI/G
SC-18621-S	3/16/1998	RADIUM-228	1 34	0 43	PCI/G
SC-18622-S	3/16/1998	RADIUM-228	1 4	0.34	PCI/G
SC-18702-S	3/16/1998	RADIUM-228	1 19	0 25	PCI/G
SC-18703-S	3/16/1998	RADIUM-228	1 24	0 49	PCI/G

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SC-18704-S	3/16/1998	RADIUM-228	1.29	0.35	PCI/G
SC-18705-S	3/16/1998	RADIUM-228	1.4	0.39	PCI/G
SC-18706-C	3/16/1998	RADIUM-228	0.585	1.17	PCI/G
SC-18706-S	3/16/1998	RADIUM-228	1.4	0.43	PCI/G
SC-18805-S	4/1/1998	RADIUM-228	1.39	0.31	PCI/G
SC-18809-S	4/1/1998	RADIUM-228	1.35	0.63	PCI/G
SC-18810-S	4/1/1998	RADIUM-228	1.1	0.31	PCI/G
SC-18811-S	4/1/1998	RADIUM-228	1.19	0.49	PCI/G
SC-18812-S	4/1/1998	RADIUM-228	1.17	0.38	PCI/G
SC-18813-S	4/1/1998	RADIUM-228	1.24	0.29	PCI/G
SC-18817-S	3/16/1998	RADIUM-228	1.26	0.41	PCI/G
SC-18818-S	3/16/1998	RADIUM-228	0.66	1.32	PCI/G
SC-18819-S	3/16/1998	RADIUM-228	1.26	0.41	PCI/G
SC-18820-S	3/16/1998	RADIUM-228	1.26	0.37	PCI/G
SC-18821-S	3/16/1998	RADIUM-228	1.24	0.37	PCI/G
SC-39601-U	3/10/2000	RADIUM-228	1.07	0.29	PCI/G
SC-39602-U	3/10/2000	RADIUM-228	1.07	0.37	PCI/G
SC-39603-U	3/10/2000	RADIUM-228	1.29	0.42	PCI/G
SC-39604-U	3/10/2000	RADIUM-228	1.03	0.35	PCI/G
SC-39605-U	3/10/2000	RADIUM-228	1.06	0.35	PCI/G
SC-39606-U	3/10/2000	RADIUM-228	0.95	0.34	PCI/G
SC-39607-U	3/10/2000	RADIUM-228	1.63	0.32	PCI/G
SC-39608-U	3/10/2000	RADIUM-228	1.2	0.42	PCI/G
SC-39609-U	3/10/2000	RADIUM-228	1.16	0.44	PCI/G
SC-39610-U	3/10/2000	RADIUM-228	1.1	0.37	PCI/G
SC-39611-U	3/10/2000	RADIUM-228	1.08	0.39	PCI/G
SC-39612-U	3/10/2000	RADIUM-228	1.01	0.37	PCI/G
SC-18105-S	10/27/1998	THORIUM-230	0.74	0.62	PCI/G
SC-18106-S	10/27/1998	THORIUM-230	1.04	0.62	PCI/G
SC-18110-S	10/27/1998	THORIUM-230	1.38	0.62	PCI/G
SC-18111-S	10/27/1998	THORIUM-230	0.93	0.62	PCI/G
SC-18116-S	10/27/1998	THORIUM-230	0.71	0.62	PCI/G
SC-39601-U	3/10/2000	THORIUM-230	0.99	0.65	PCI/G
SC-39602-U	3/10/2000	THORIUM-230	1.32	0.64	PCI/G
SC-39603-U	3/10/2000	THORIUM-230	0.99	0.64	PCI/G
SC-39604-U	3/10/2000	THORIUM-230	2.44	0.64	PCI/G
SC-39605-U	3/10/2000	THORIUM-230	1.06	0.65	PCI/G
SC-39606-U	3/10/2000	THORIUM-230	1.01	0.64	PCI/G
SC-39607-U	3/10/2000	THORIUM-230	1.34	0.64	PCI/G
SC-39608-U	3/10/2000	THORIUM-230	1.25	0.64	PCI/G
SC-39609-U	3/10/2000	THORIUM-230	13.6	0.64	PCI/G
SC-39609-U-RS	3/15/2000	THORIUM-230	2.52	0.64	PCI/G
SC-39610-U	3/10/2000	THORIUM-230	1.01	0.64	PCI/G
SC-39611-U	3/10/2000	THORIUM-230	5.97	0.65	PCI/G
SC-39612-U	3/10/2000	THORIUM-230	1.15	0.64	PCI/G
SC-17002-S	9/29/1998	URANIUM-238	1.83	2.85	PCI/G
SC-17003-S	9/29/1998	URANIUM-238	1.455	2.91	PCI/G
SC-17004-S	9/29/1998	URANIUM-238	1.955	3.91	PCI/G

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SC-17005-S	9/29/1998	URANIUM-238	1.375	2.75	PCI/G
SC-17007-S	9/29/1998	URANIUM-238	1.93	3.86	PCI/G
SC-17008-S	9/29/1998	URANIUM-238	1.415	2.83	PCI/G
SC-17009-S	9/29/1998	URANIUM-238	1.46	2.26	PCI/G
SC-17010-S	9/29/1998	URANIUM-238	1.975	3 95	PCI/G
SC-17011-C	9/29/1998	URANIUM-238	1.445	2 89	PCI/G
SC-17012-S	9/29/1998	URANIUM-238	1.995	3.99	PCI/G
SC-17013-S	9/29/1998	URANIUM-238	1.345	2.69	PCI/G
SC-17014-S	9/29/1998	URANIUM-238	1.87	3.74	PCI/G
SC-17015-S	9/29/1998	URANIUM-238	1.46	2.92	PCI/G
SC-17017-S	9/29/1998	URANIUM-238	2.16	4.32	PCI/G
SC-17018-S	9/29/1998	URANIUM-238	1.375	2.75	PCI/G
SC-17018-S-RS	10/15/1998	URANIUM-238	2.08	4.16	PCI/G
SC-17019-S	9/29/1998	URANIUM-238	2.005	4 01	PCI/G
SC-17020-S	9/29/1998	URANIUM-238	2.54	2.48	PCI/G
SC-17021-C	9/29/1998	URANIUM-238	2.09	4.18	PCI/G
SC-17022-S	9/29/1998	URANIUM-238	1.41	2.82	PCI/G
SC-17023-S	9/29/1998	URANIUM-238	1 965	3.93	PCI/G
SC-17024-S	9/29/1998	URANIUM-238	1.425	2.85	PCI/G
SC-17025-S	9/29/1998	URANIUM-238	1.365	2.73	PCI/G
SC-17101-S	9/29/1998	URANIUM-238	1.97	3 94	PCI/G
SC-17102-S	9/29/1998	URANIUM-238	1.415	2.83	PCI/G
SC-17103-S	9/29/1998	URANIUM-238	1.975	3 95	PCI/G
SC-17104-S	9/29/1998	URANIUM-238	1.435	2 87	PCI/G
SC-17105-S	9/29/1998	URANIUM-238	2.03	4 06	PCI/G
SC-17106-S	9/29/1998	URANIUM-238	1.535	3.07	PCI/G
SC-17107-S	9/29/1998	URANIUM-238	1.965	3.93	PCI/G
SC-17108-S	9/29/1998	URANIUM-238	1 335	2 67	PCI/G
SC-17109-S	9/29/1998	URANIUM-238	1.99	3 98	PCI/G
SC-17110-S	9/29/1998	URANIUM-238	1 465	2.93	PCI/G
SC-17111-S	9/29/1998	URANIUM-238	2.03	4.06	PCI/G
SC-17112-S	9/29/1998	URANIUM-238	1.435	2 87	PCI/G
SC-17113-S	9/29/1998	URANIUM-238	1 85	3 7	PCI/G
SC-17114-S	9/29/1998	URANIUM-238	1.385	2.77	PCI/G
SC-17115-S	9/29/1998	URANIUM-238	2 145	4.29	PCI/G
SC-17116-S	9/29/1998	URANIUM-238	1.365	2 73	PCI/G
SC-17117-S	9/29/1998	URANIUM-238	1 84	3 68	PCI/G
SC-17118-S	9/29/1998	URANIUM-238	1.345	2.69	PCI/G
SC-17119-S	9/29/1998	URANIUM-238	1.955	3 91	PCI/G
SC-17120-S	9/29/1998	URANIUM-238	1.365	2 73	PCI/G
SC-17121-S	9/29/1998	URANIUM-238	1.97	3 94	PCI/G
SC-17122-S	9/29/1998	URANIUM-238	1 42	2 84	PCI/G
SC-17123-S	9/29/1998	URANIUM-238	1.945	3.89	PCI/G
SC-17124-S	9/29/1998	URANIUM-238	1 335	2 67	PCI/G
SC-17201-S	9/29/1998	URANIUM-238	1.825	3 65	PCI/G
SC-17202-S	9/29/1998	URANIUM-238	1.355	2 71	PCI/G
SC-17203-C	9/29/1998	URANIUM-238	1.87	3 74	PCI/G
SC-17203-S	9/29/1998	URANIUM-238	1.415	2 83	PCI/G

WSSRAP_ID	DATE_SAM	<b>PARAMETER</b>	CONC	DL	UNITS
SC-17204-S	9/29/1998	<b>URANIUM-238</b>	1.915	3.83	PCI/G
SC-17205-C	9/29/1998	URANIUM-238	1.425	2.85	PCI/G
SC-17205-S	9/29/1998	<b>URANIUM-238</b>	2.12	4.24	PCI/G
SC-17206-S	9/29/1998	URANIUM-238	1.42	2.84	PCI/G
SC-17207-S	9/29/1998	URANIUM-238	1.835	3.67	PCI/G
SC-17208-S	9/29/1998	URANIUM-238	1.47	2.26	PCI/G
SC-17209-S	9/29/1998	URANIUM-238	1.875	3.75	PCI/G
SC-17210-S	9/29/1998	URANIUM-238	1.97	2.59	PCI/G
SC-17211-S	9/29/1998	URANIUM-238	1.365	2.73	PCI/G
SC-17212-S	9/29/1998	URANIUM-238	1.82	3.64	PCI/G
SC-17213-S	9/29/1998	URANIUM-238	1.285	2.57	PCI/G
SC-17214-C	9/29/1998	URANIUM-238	1.855	3.71	PCI/G
SC-17214-S	9/29/1998	URANIUM-238	1.42	2.84	PCI/G
SC-17215-S	9/29/1998	URANIUM-238	1.93	3.86	PCI/G
SC-17216-S	9/29/1998	URANIUM-238	2.53	2.09	PCI/G
SC-17217-S	9/29/1998	URANIUM-238	2.14	4.28	PCI/G
SC-17218-S	9/29/1998	URANIUM-238	2.72	1.82	PCI/G
SC-17219-S	9/29/1998	URANIUM-238	1.805	3.61	PCI/G
SC-17220-S	9/29/1998	URANIUM-238	1.305	2.61	PCI/G
SC-17221-C	9/29/1998	URANIUM-238	1.82	3.64	PCI/G
SC-17221-S	9/29/1998	URANIUM-238	1.385	2.77	PCI/G
SC-17222-S	9/29/1998	URANIUM-238	1.955	3.91	PCI/G
SC-17223-S	9/29/1998	URANIUM-238	1.43	2.86	PCI/G
SC-17224-S	9/29/1998	URANIUM-238	1.805	3.61	PCI/G
SC-17225-S	9/29/1998	URANIUM-238	1.335	2.67	PCİ/G
SC-17226-S	9/29/1998	URANIUM-238	1.77	3.54	PCI/G
SC-17227-S	9/29/1998	URANIUM-238	1.37	2.74	PCI/G PCI/G
SC-17228-S	′9/29/1998	URANIUM-238	1.905	3.81	PCI/G PCI/G
SC-17301-S	9/29/1998	URANIUM-238	1.455	2.91	PCI/G PCI/G
SC-17302-S	9/30/1998	URANIUM-238	1.95	3.9	PCI/G
SC-17303-S	9/30/1998	URANIUM-238	1.305	2.61	PCI/G
SC-17304-S	9/30/1998	URANIUM-238	1.91	3.82	PCI/G
SC-17305-S	9/30/1998	URANIUM-238	1.4	2.8	PCI/G
SC-17306-S	9/30/1998	URANIUM-238	1.915	3.83	PCI/G
SC-17307-S	9/30/1998	URANIUM-238	1.245	2.49 2.79	PCI/G
SC-17308-S	9/29/1998	URANIUM-238	1.395	2.7 <del>9</del> 3.97	PCI/G
SC-17309-S	9/30/1998	URANIUM-238	1.985	2.58	PCI/G
SC-17310-S	9/30/1998	URANIUM-238	1.29	3.89	PCI/G
SC-17311-S	9/30/1998	URANIUM-238	1.945 1.91	3.82	PCI/G
SC-17312-S	9/30/1998	URANIUM-238	1.325	2.65	PCI/G
SC-17313-S	9/30/1998	URANIUM-238	1.875	2.05 3.75	PCI/G
SC-17314-S	9/30/1998	URANIUM-238	1.405	2.81	PCI/G
SC-17315-S	9/30/1998	URANIUM-238	1. <del>405</del> 1.895	3.79	PCI/G
SC-17316-S	9/30/1998	URANIUM-238	1.895	2.63	PCI/G
SC-17317-S	9/30/1998	URANIUM-238	1.925	2.05 3.85	PCI/G
SC-17318-S	9/30/1998	URANIUM-238	1.925 1.365	2.73	PCI/G
SC-17319-S	10/16/1998	URANIUM-238	1.915	3.83	PCI/G
SC-17320-S	10/16/1998	URANIUM-238	1.810	3.00	

WSSRAP_ID	DATE_SAM	PARAMETER	CONC	DL	UNITS
SC-17321-S	10/16/1998	URANIUM-238	1.23	2 46	PCI/G
SC-17402-S	9/30/1998	<b>URANIUM-238</b>	1.455	2 91	PCI/G
SC-17403-S	9/30/1998	URANIUM-238	2.04	4 08	PCI/G
SC-17404-S	9/30/1998	<b>URANIUM-238</b>	1.36	2.72	PCI/G
SC-17405-S	9/30/1998	URANIUM-238	2.44	3 02	PCI/G
SC-17407-S	9/30/1998	URANIUM-238	1.375	2.75	PCI/G
SC-17408-S	9/30/1998	URANIUM-238	3.16	3.11	PCI/G
SC-17409-S	9/30/1998	URANIUM-238	2.43	2.11	PCI/G
SC-17410-S	9/30/1998	URANIUM-238	1.89	3.78	PCI/G
SC-17411-S	9/3 <b>0/1998</b>	URANIUM-238	2.02	2 67	PCI/G
SC-17412-S	9/30/1998	URANIUM-238	2.09	4.18	PCI/G
SC-17413-S	9/30/1998	URANIUM-238	1.42	2.84	PCI/G
SC-17414-S	9/30/1998	URANIUM-238	1.965	3 93	PCI/G
SC-17416-S	9/30/1998	URANIUM-238	1.34	2 68	PCI/G
SC-17417-S	9/30/1998	URANIUM-238	2.205	4 41	PCI/G
SC-17418-S	9/30/1998	URANIUM-238	1.42	2 84	PCI/G
SC-17419-S	9/30/1998	URANIUM-238	2.02	4 04	PCI/G
SC-17420-S	9/30/1998	URANIUM-238	1.485	2.97	PCI/G
SC-17421-S	9/30/1998	URANIUM-238	2.02	4.04	PCI/G
SC-17422-S	9/30/1998	URANIUM-238	1.415	2 83	PCI/G
SC-17423-S	9/30/1998	URANIUM-238	1 945	3 89	PCI/G
SC-17501-C	9/30/1998	URANIUM-238	1.345	2.69	PCI/G
SC-17502-S	9/30/1998	URANIUM-238	4.36	3.97	PCI/G
SC-17503-S	9/30/1998	URANIUM-238	5.71	2 45	PCI/G
SC-17504-S	9/30/1998	URANIUM-238	1.835	3.67	PCI/G
SC-17506-S	9/30/1998	URANIUM-238	2.01	2.26	PCI/G
SC-17507-S	9/30/1998	URANIUM-238	1 87	3.74	PCI/G
SC-17508-S	9/30/1998	URANIUM-238	5.61	2 45	PCI/G
SC-17509-C	9/30/1998	URANIUM-238	1.82	3 64	PCI/G
SC-17510-S	9/30/1998	URANIUM-238	1.44	2 88	PCI/G
SC-17511-S	9/30/1998	URANIUM-238	3.4	2.07	PCI/G
SC-17512-S	9/30/1998	URANIUM-238	1.385	2 77	PCI/G
SC-17514-S	9/30/1998	URANIUM-238	2 11	4.22	PCI/G
SC-17515-S	9/30/1998	URANIUM-238	1 395	2.79	PCI/G
SC-17516-S	9/30/1998	URANIUM-238	2.11	4 22	PCI/G
SC-17518-S	9/30/1998	URANIUM-238	1.425	2 85	PCI/G
SC-17519-S	9/30/1998	URANIUM-238	1.95	3.9	PCI/G
SC-17520-S	9/30/1998	URANIUM-238	1 365	2 73	PCI/G
SC-17523-S	9/30/1998	URANIUM-238	1.97	3.94	PCI/G
SC-17524-S	9/30/1998	URANIUM-238	1.345	2.69	PCI/G
SC-17601-S	10/1/1998	URANIUM-238	1.935	3.87	PCI/G
SC-17602-S	10/1/1998	URANIUM-238	1.39	2.78	PCI/G
SC-17603-S	10/1/1998	URANIUM-238	1.955	3.91	PCI/G
SC-17604-S	10/1/1998	URANIUM-238	2.34	1.94	PCI/G
SC-17605-S	10/1/1998	URANIUM-238	1.87	3.74	PCI/G
SC-17606-S	10/1/1998	URANIUM-238	1.415	2.83	PCI/G
SC-17607-S	10/1/1998	URANIUM-238	6.15	3 21	PCI/G
SC-17608-S	10/1/1998	URANIUM-238	1.425	2.85	PCI/G

WSSRAP_ID	DATE_SAM	<b>PARAMETER</b>	CONC	DL	UNITS
SC-17609-S	10/1/1998	<b>URANIUM-238</b>	1.87	3.74	PCI/G
SC-17610-S	10/1/1998	<b>URANIUM-238</b>	1.45	2.9	PCI/G
SC-17611-S	10/1/1998	URANIUM-238	1.815	3.63	PCI/G
SC-17612-S	10/1/1998	URANIUM-238	2.08	2.33	PCI/G
SC-17613-S	10/1/1998	URANIUM-238	2.215	4.43	PCI/G
SC-17614-S	10/1/1998	URANIUM-238	1.4	2.8	PCI/G
SC-17615-S	10/1/1998	URANIUM-238	2.02	4.04	PCI/G
SC-17616-S	10/1/1998	URANIUM-238	3.18	1.9	PCI/G
SC-17617-S	10/1/1998	URANIUM-238	2.035	4.07	PCI/G
SC-17618-S	10/1/1998	URANIUM-238	1.41	2.82	PCI/G
SC-17619-S	10/1/1998	URANIUM-238	2.08	4.16	PCI/G
SC-17620-S	10/1/1998	URANIUM-238	1.435	2.87	PCI/G
SC-17701-S	9/30/1998	URANIUM-238	1.34	2.68	PCI/G
SC-17702-S	10/1/1998	URANIUM-238	1.885	3.77	PCI/G
SC-17703-S	10/1/1998	URANIUM-238	1.345	2.69	PCI/G
SC-17704-S	10/16/1998	URANIUM-238	2.055	4.11	PCI/G
SC-17705-S	10/1/1998	URANIUM-238	1.87	3.74	PCI/G
SC-17706-S	10/1/1998	URANIUM-238	1.39	2.78	PCI/G
SC-17707-S	10/1/1998	URANIUM-238	1.895	3.79	PCI/G
SC-17708-S	10/16/1998	URANIUM-238	1.405	2.81	PCI/G
SC-17709-S	10/1/1998	URANIUM-238	1.385	2.77	PCI/G
SC-17710-S	10/1/1998	URANIUM-238	1.87	3.74	PCI/G
SC-17711-S	10/1/1998	URANIUM-238	1.425	2.85	PCI/G
SC-17712-S	10/16/1998	URANIUM-238	1.85	3.59	PCI/G
SC-17713-S	10/1/1998	URANIUM-238	1.915	3.83	PCI/G
SC-17714-S	10/1/1998	URANIUM-238	1.43	2.86	PCI/G
SC-17715-S	10/1/1998	URANIUM-238	1.855	3.71	PCI/G
SC-17716-S	10/16/1998	URANIUM-238	1.4	2.8	PCI/G PCI/G
SC-17717-S	10/1/1998	URANIUM-238	1.33	2.66	PCI/G PCI/G
SC-17718-S	10/1/1998	URANIUM-238	1.425	2.85	PCI/G
SC-17719-S	10/16/1998	URANIUM-238	1.825	3.65 2.82	PCI/G
SC-17720-S	10/16/1998	URANIUM-238	1.41	2.02 2.71	PCI/G
SC-17801-S	10/16/1998	URANIUM-238	1.355	3.83	PCI/G
SC-17802-S	10/16/1998	URANIUM-238	1.915 1.435	3.83 2.87	PCI/G
SC-17803-C	10/16/1998	URANIUM-238	1.435	3.64	PCI/G
SC-17803-S	10/16/1998	URANIUM-238	1.415	2.83	PCI/G
SC-17804-S	10/16/1998	URANIUM-238	1.86	3.72	PCI/G
SC-17805-S	10/16/1998	URANIUM-238 URANIUM-238	1.42	2.84	PCI/G
SC-17806-C	10/16/1998	URANIUM-238	1.915	3.83	PCI/G
SC-17806-S	10/16/1998	URANIUM-238	1.27	2.54	PCI/G
SC-17807-S	10/16/1998	URANIUM-238	1.97	3.94	PCI/G
SC-17808-S	10/16/1998	URANIUM-238	1.34	2.68	PCI/G
SC-17809-S	10/16/1998	URANIUM-238	1.86	3.72	PCI/G
SC-17810-S	10/16/1998	URANIUM-238	1.785	3.57	PCI/G
SC-17811-S	10/16/1998	URANIUM-238	1.51	3.02	PCI/G
SC-17812-C	10/16/1998 10/16/1998	URANIUM-238	1.76	3.52	PCI/G
SC-17812-S	10/16/1998	URANIUM-238	1.31	2.62	PCI/G
SC-17813-S	10/10/1990	OI VAI 41 OM-200			

WSSRAP_ID	DATE_SAM	PARAMETER	CONC	DL	UNITS
SC-17814-S	10/16/1998	URANIUM-238	1.875	3.75	PCI/G
SC-17815-S	10/16/1998	URANIUM-238	1.36	2.72	PCI/G
SC-17816-S	10/16/1998	URANIUM-238	1.97	3.94	PCI/G
SC-17817-S	10/16/1998	URANIUM-238	1.385	2 77	PCI/G
SC-17818-C	10/16/1998	URANIUM-238	1.93	3.86	PCI/G
SC-17818-S	10/16/1998	URANIUM-238	1.295	2.59	PCI/G
SC-17819-S	10/16/1998	URANIUM-238	1 84	3.68	PCI/G
SC-17820-S	10/16/1998	<b>URANIUM-238</b>	1.35	27	PCI/G
SC-17821-S	10/16/1998	URANIUM-238	1.665	3.33	PCI/G
SC-17822-S	10/16/1998	<b>URANIUM-238</b>	3.08	2.61	PCI/G
SC-17901-S	10/23/1998	URANIUM-238	2.1	4.2	PCI/G
SC-17902-S	10/23/1998	URANIUM-238	1.43	2.86	PCI/G
SC-17903-S	10/23/1998	URANIUM-238	1.985	3 97	PCI/G
SC-17904-S	10/23/1998	URANIUM-238	1.5	2.01	PCI/G
SC-17905-S	10/23/1998	URANIUM-238	1.815	3.63	PCI/G
SC-17906-S	10/23/1998	URANIUM-238	1.455	2.91	PCI/G
SC-17907-S	10/23/1998	URANIUM-238	2.09	4.18	PCI/G
SC-17908-S	10/23/1998	URANIUM-238	1.42	2.84	PCI/G
SC-17909-S	10/23/1998	URANIUM-238	1.91	3 82	PCI/G
SC-17910-S	10/23/1998	URANIUM-238	1.435	2 87	PCI/G
SC-17911-S	10/23/1998	URANIUM-238	1.975	3 95	PCI/G
SC-17912-S	10/23/1998	URANIUM-238	1.34	2.68	PCI/G
SC-17913-S	10/23/1998	URANIUM-238	1.945	3.89	PCI/G
SC-17914-S	10/23/1998	URANIUM-238	1.3	26	PCI/G
SC-17915-S	10/23/1998	URANIUM-238	1.965	3 93	PCI/G
SC-17916-S	10/23/1998	URANIUM-238	1.41	2 82	PCI/G
SC-17917-S	10/23/1998	URANIUM-238	1.905	3 81	PCI/G
SC-17918-S	10/23/1998	URANIUM-238	1 35	27	PCI/G
SC-17919-S	10/23/1998	URANIUM-238	1.955	3 91	PCI/G
SC-17920-S	10/23/1998	URANIUM-238	1 31	2.62	PCI/G
SC-18001-S	10/1/1998	URANIUM-238	1.85	3.7	PCI/G
SC-18002-S	10/27/1998	URANIUM-238	1.35	2.7	PCI/G
SC-18003-S	10/27/1998	URANIUM-238	1.995	3.99	PCI/G
SC-18004-S	10/27/1998	URANIUM-238	1.445	2.89	PCI/G
SC-18005-S	10/27/1998	URANIUM-238	1.95	3 9	PCI/G
SC-18006-S	10/27/1998	URANIUM-238	1.18	1 65	PCI/G
SC-18007-S	10/27/1998	URANIUM-238	1 895	3 79	PCI/G
SC-18008-S	10/27/1998	URANIUM-238	1.375	2 75	PCI/G
SC-18012-S	10/27/1998	URANIUM-238	22.3	4 96	PCI/G
SC-18013-S	10/27/1998	URANIUM-238	1.415	2.83	PCI/G
SC-18014-S	10/27/1998	URANIUM-238	1.905	3.81	PCI/G
SC-18015-S	10/27/1998	URANIUM-238	1.36	2.72	PCI/G
SC-18016-S	10/27/1998	URANIUM-238	1.885	3.77	PCI/G
SC-18019-S	10/27/1998	URANIUM-238	1.89	1.81	PCI/G
SC-18020-S	10/27/1998	URANIUM-238	1 855	3 71	PCI/G
SC-18021-S	10/27/1998	URANIUM-238	1.47	2.94	PCI/G
SC-18022-S	10/27/1998	URANIUM-238	1.89	3.78	PCI/G
SC-18023-S	10/27/1998	URANIUM-238	1.415	2.83	PCI/G

WSSRAP ID	DATE_SAM	PARAMETER	CONC	DL	UNITS
SC-18104-S	10/27/1998	URANIUM-238	1.91	3.82	PCI/G
SC-18105-S	10/27/1998	URANIUM-238	1.36	2.72	PCI/G
SC-18106-S	10/27/1998	URANIUM-238	1.895	3.79	PCI/G
SC-18108-S	1/29/1999	<b>URANIUM-238</b>	2.05	4.1	PCI/G
SC-18109-S	1/29/1999	URANIUM-238	3.9	2.25	PCI/G
SC-18110-S	10/27/1998	URANIUM-238	1.43	2.86	PCI/G
SC-18111-S	10/27/1998	URANIUM-238	1.965	3.93	PCI/G
SC-18114-C	1/29/1999	<b>URANIUM-238</b>	2.205	4.41	PCI/G
SC-18114-S	1/29/1999	<b>URANIUM-238</b>	3.39	2.48	PCI/G
SC-18115-S	1/29/1999	URANIUM-238	3.64	2.45	PCI/G
SC-18116-S	10/27/1998	URANIUM-238	1.52	3.04	PCI/G
SC-18119-S	1/29/1999	URANIUM-238	1.495	2.99	PCI/G
SC-18120-S	1/29/1999	URANIUM-238	3.12	2.51	PCI/G
SC-18122-S	1/29/1999	URANIUM-238	1.6	2.12	PCI/G
SC-18123-S	1/29/1999	URANIUM-238	1.97	3.58	PCI/G
SC-18126-S	1/29/1999	URANIUM-238	1.87	1.78	PCI/G
SC-18201-S	10/27/1998	URANIUM-238	2.04	4.08	PCI/G
SC-18202-S	10/27/1998	URANIUM-238	1.41	2.82	PCI/G
SC-18203-S	10/27/1998	URANIUM-238	2.085	4.17	PCI/G
SC-18204-S	10/27/1998	URANIUM-238	1.36	2.72	PCI/G
SC-18205-S	10/27/1998	URANIUM-238	1.825	3.65	PCI/G PCI/G
SC-18206-S	10/27/1998	URANIUM-238	1.34	2.68	PCI/G PCI/G
SC-18207-S	10/27/1998	URANIUM-238	1.985	3.97 2.79	PCI/G
SC-18208-S	10/27/1998	URANIUM-238	1.395	2.79 3.95	PCI/G
SC-18209-S	10/27/1998	URANIUM-238	1.975	3.95 3.15	PCI/G
SC-18210-S	10/27/1998	URANIUM-238	1.575 1.885	3.15 3.77	PCI/G
SC-18211-S	10/27/1998	URANIUM-238	1.395	3.77 2.79	PCI/G
SC-18212-S	10/27/1998	URANIUM-238	1.725	2.79 3.45	PCI/G
SC-18213-S	10/27/1998	URANIUM-238	1.725	2.8	PCI/G
SC-18214-S	10/27/1998	URANIUM-238	1.79	3.58	PCI/G
SC-18215-S	10/27/1998	URANIUM-238 URANIUM-238	1.39	2.78	PCI/G
SC-18216-S	10/27/1998	URANIUM-238	2.13	2.55	PCI/G
SC-18217-S	10/27/1998	URANIUM-238	1.345	2.69	PCI/G
SC-18218-S	10/27/1998	URANIUM-238	1.76	3.52	PCI/G
SC-18219-S	10/27/1998	URANIUM-238	1.925	3.85	PCI/G
SC-18220-S	3/3/1998 10/23/1998	URANIUM-238	1.915	3.83	PCI/G
SC-18301-S	10/23/1998	URANIUM-238	1.825	3.65	PCI/G
SC-18302-S	10/23/1998	URANIUM-238	1.265	2.53	PCI/G
SC-18303-S	10/23/1998	URANIUM-238	1.975	3.95	PCI/G
SC-18304-S	10/23/1998	URANIUM-238	1.385	2.77	PCI/G
SC-18305-S	10/23/1998	URANIUM-238	1.935	3.87	PCI/G
SC-18306-S	10/23/1998	URANIUM-238	1.31	2.62	PCI/G
SC-18307-S SC-18308-S	10/23/1998	URANIUM-238	2.065	4.13	PCI/G
SC-18308-S SC-18309-S	10/23/1998	URANIUM-238	1.64	2.47	PCI/G
SC-18310-S	10/23/1998	URANIUM-238	1. <b>90</b> 5	3.81	PCI/G
SC-18311-S	10/23/1998	URANIUM-238	1.37	2.74	PCI/G
SC-18311-S SC-18312-S	10/23/1998	URANIUM-238	1.84	3.68	PCI/G
30-10312-0					

WSSRAP_ID	DATE_SAM	PARAMETER	CONC	DL	UNITS
SC-18313-S	10/23/1998	<b>URANIUM-238</b>	1.36	2.03	PCI/G
SC-18314-S	10/23/1998	<b>URANIUM-238</b>	1.995	3.99	PCI/G
SC-18315-S	10/23/1998	URANIUM-238	1.435	2.87	PCI/G
SC-18316-S	10/23/1998	<b>URANIUM-238</b>	2.17	4.34	PCI/G
SC-18317-S	10/23/1998	URANIUM-238	1.985	3.97	PCI/G
SC-18318-S	10/23/1998	<b>URANIUM-238</b>	1.41	2.82	PCI/G
SC-18319-S	10/23/1998	URANIUM-238	1.925	3 85	PCI/G
SC-18320-S	10/27/1998	<b>URANIUM-238</b>	1.435	2.87	PCI/G
SC-18321-S	10/23/1998	<b>URANIUM-238</b>	3.59	2.17	PCI/G
SC-18322-S	10/23/1998	<b>URANIUM-238</b>	1.815	3.63	PCI/G
SC-18323-S	10/23/1998	URANIUM-238	1.46	2 92	PCI/G
SC-18324-S	4/3/1998	URANIUM-238	1.81	3.21	PCI/G
SC-18325-S	4/3/1998	URANIUM-238	1.345	2 69	PCI/G
SC-18326-S	4/3/1998	URANIUM-238	1.995	3.99	PCI/G
SC-18401-S	10/27/1998	URANIUM-238	2 09	4 18	PCI/G
·SC-18402-S	3/3/1998	URANIUM-238	2.37	2.31	PCI/G
SC-18403-S	3/3/1998	<b>URANIUM-238</b>	2.05	4 1	PCI/G
SC-18404-S	4/3/1998	URANIUM-238	2.43	1.92	PCI/G
SC-18405-S	4/3/1998	URANIUM-238	1.885	3.77	PCI/G
SC-18406-S	4/3/1998	URANIUM-238	15	3	PCI/G
SC-18407-S	3/3/1998	URANIUM-238	1.455	2.91	PCI/G
SC-18408-S	3/3/1998	URANIUM-238	1.97	3 94	PCI/G
SC-18409-S	3/3/1998	<b>URANIUM-238</b>	1.475	2.95	PCI/G
SC-18410-S	4/3/1998	URANIUM-238	1.965	3 93	PCI/G
SC-18411-S	4/3/1998	<b>URANIUM-238</b>	1.32	2 64	PCI/G
SC-18412-S	4/3/1998	<b>URANIUM-238</b>	1.86	3 72	PCI/G
SC-18413-S	3/3/1998	URANIUM-238	1.665	3 33	PCI/G
SC-18414-S	3/3/1998	URANIUM-238	1 53	1 75	PCI/G
SC-18415-S	3/3/1998	<b>URANIUM-238</b>	1.93	3.86	PCI/G
SC-18416-S	3/3/1998	URANIUM-238	1.335	2.67	PCI/G
SC-18417-S	4/3/1998	URANIUM-238	1.405	2 81	PCI/G
SC-18418-S	4/3/1998	URANIUM-238	2.225	4.45	PCI/G
SC-18419-S	3/3/1998	URANIUM-238	2.28	4 56	PCI/G
SC-18420-S	3/3/1998	URANIUM-238	1.565	3.13	PCI/G
SC-18421-S	3/3/1998	URANIUM-238	1 99	3 98	PCI/G
SC-18422-S	3/3/1998	URANIUM-238	1.585	3.17	PCI/G
SC-18423-S	4/1/1998	URANIUM-238	1.95	3 9	PCI/G
SC-18424-S	4/3/1998	URANIUM-238	1.62	2.58	PCI/G
SC-18501-S	10/27/1998	URANIUM-238	1 41	2 82	PCI/G
SC-18502-S	10/27/1998	URANIUM-238	2.005	4 01	PCI/G
SC-18503-S	3/3/1998	URANIUM-238	2.09	4.18	PCI/G
SC-18504-S	3/3/1998	URANIUM-238	1.35	2.7	PCI/G
SC-18506-S	1/29/1999	URANIUM-238	1.825	3.65	PCI/G
SC-18507-S	4/2/1998	URANIUM-238	1.345	2.69	PCI/G
SC-18508-S	4/1/1998	URANIUM-238	1.47	2 94	PCI/G
SC-18509-S	3/3/1998	URANIUM-238	1.755	3.51	PCI/G
SC-18510-S	3/3/1998	URANIUM-238	1 255	2 51	PCI/G
SC-18513-S	4/1/1998	URANIUM-238	2 67	2 37	PCI/G
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WSSRAP_ID	DATE_SAM	<b>PARAMETER</b>	CONC	DL	UNITS
SC-18514-S	4/1/1998	URANIUM-238	1.85	3.7	PCI/G
SC-18515-S	4/1/1998	URANIUM-238	1.39	2.78	PCI/G
SC-18516-S	4/1/1998	URANIUM-238	1.32	2.64	PCI/G
SC-18518-S	4/1/1998	URANIUM-238	5.1	1.99	PCI/G
SC-18519-S	4/1/1998	URANIUM-238	1.825	3.65	PCI/G
SC-18520-S	4/1/1998	URANIUM-238	2.005	4.01	PCI/G
SC-18521-S	4/1/1998	URANIUM-238	2.08	2.24	PCI/G
SC-18601-S	4/1/1998	URANIUM-238	2.06	4.12	PCI/G
SC-18602-S	4/1/1998	· URANIUM-238	1.78	2.03	PCI/G
SC-18603-S	4/1/1998	URANIUM-238	1.385	2.77	PCI/G
SC-18604-S	4/1/1998	URANIUM-238	1.8	3.6	PCI/G
SC-18605-S	4/1/1998	URANIUM-238	1.43	2.86	PCI/G
SC-18606-S	4/3/1998	URANIUM-238	2.2	4.4	PCI/G
SC-18607-S	4/1/1998	URANIUM-238	1.895	3.79	PCI/G
SC-18608-S	4/1/1998	URANIUM-238	1.62	1.77	PCI/G
SC-18609-S	4/1/1998	URANIUM-238	1.745	3.49	PCI/G
SC-18610-S	4/1/1998	URANIUM-238	1.27	2.54	PCI/G
SC-18611-S	4/1/1998	URANIUM-238	2.05	4.1	PCI/G
SC-18612-S	4/3/1998	URANIUM-238	1.8	2.51	PCI/G
SC-18613-S	4/1/1998	URANIUM-238	1.93	1.95	PCI/G
SC-18614-S	4/1/1998	URANIUM-238	1.93	3.86	PCI/G
SC-18615-S	4/1/1998	URANIUM-238	1.365	2.73	PCI/G
SC-18616-S	4/1/1998	URANIUM-238	1.875	3.75	PCI/G
SC-18617-S	4/1/1998	URANIUM-238	1.35	2.7	PCI/G
SC-18618-S	4/3/1998	URANIUM-238	1.89	3.78	PCÍ/G
SC-18619-S	4/1/1998	URANIUM-238	1.875	3.75	PCI/G
SC-18620-S	4/1/1998	URANIUM-238	2.1	4.2	PCI/G PCI/G
SC-18621-S	3/16/1998	URANIUM-238	2.25	4.5 2.51	PCI/G PCI/G
SC-18622-S	3/16/1998	URANIUM-238	2.75	2.51 2.83	PCI/G
SC-18701-S	3/16/1998	URANIUM-238	2.1		PCI/G
SC-18702-S	3/16/1998	URANIUM-238	2.105	4.21 2.97	PCI/G
SC-18703-S	3/16/1998	URANIUM-238	1.485	2.97 3.54	PCI/G
SC-18704-S	3/16/1998	URANIUM-238	3.36	3.5 <del>4</del> 2	PCI/G
SC-18705-S	3/16/1998	URANIUM-238	3.75	4.17	PCI/G
SC-18706-C	3/16/1998	URANIUM-238	2.085	4.17 4.43	PCI/G
SC-18706-S	3/16/1998	URANIUM-238	2.215 2.215	4.43 4.43	PCI/G
SC-18707-C	3/16/1998	URANIUM-238	2.345	4.69	PCI/G
SC-18708-S	3/16/1998	URANIUM-238 URANIUM-238	2.345 1.4	2.8	PCI/G
SC-18709-S	3/16/1998	URANIUM-238	1.885	3.77	PCI/G
SC-18710-S	3/16/1998	_	1.475	2.95	PCI/G
SC-18711-S	3/16/1998	URANIUM-238 URANIUM-238	2.15	4.3	PCI/G
SC-18712-C	3/16/1998	URANIUM-238	1.4	2.8	PCI/G
SC-18712-S	3/16/1998	URANIUM-238	1.84	3.68	PCI/G
SC-18716-S	3/16/1998	URANIUM-238	1.85	3.7	PCI/G
SC-18717-S	3/16/1998	URANIUM-238	2.05	2.29	PCI/G
SC-18718-S	3/16/1998	URANIUM-238 URANIUM-238	1.37	2.74	PCI/G
SC-18720-C	3/16/1998	URANIUM-238	1.97	3.94	PCI/G
SC-18721-S	3/16/1998	UTANIUM-230	1.31	0.04	. 55

WSSRAP_ID	DATE_SAM	PARAMETER	CONC	DL	UNITS
SC-18722-S	3/16/1998	URANIUM-238	2.14	4.28	PCI/G
SC-18726-S	3/16/1998	URANIUM-238	1.32	2.64	PCI/G
SC-18803-S	3/17/1998	URANIUM-238	2.215	4.43	PCI/G
SC-18804-S	4/1/1998	URANIUM-238	1.445	2 89	PCI/G
SC-18805-S	4/1/1998	URANIUM-238	1.415	2.83	PCI/G
SC-18807-S	3/18/1998	URANIUM-238	1.925	3.85	PCI/G
SC-18808-S	3/17/1998	<b>URANIUM-238</b>	1.39	2.78	PCI/G
SC-18809-S	4/1/1998	<b>URANIUM-238</b>	2.16	4.32	PCI/G
SC-18810-S	4/1/1998	URANIUM-238	1.39	2 78	PCI/G
SC-18811-S	4/1/1998	<b>URANIUM-238</b>	1.76	3.52	PCI/G
SC-18812-S	4/1/1998	<b>URANIUM-238</b>	1.205	2.41	PCI/G
SC-18813-S	4/1/1998	URANIUM-238	1.395	2.79	PCI/G
SC-18816-S	3/17/1998	<b>URANIUM-238</b>	5.14	3.26	PCI/G
SC-18817-S	3/16/1998	URANIUM-238	4.05	1.89	PCI/G
SC-18818-S	3/16/1998	<b>URANIUM-238</b>	2.18	4 36	PCI/G
SC-18819-S	3/16/1998	<b>URANIUM-238</b>	1.395	2.79	PCI/G
SC-18820-S	3/16/1998	<b>URANIUM-238</b>	1.885	3 77	PCI/G
SC-18821-S	3/16/1998	URANIUM-238	3	1 98	PCI/G
SC-39601-U	3/10/2000	<b>URANIUM-238</b>	0 975	1.95	PCI/G
SC-39602-U	3/10/2000	<b>URANIUM-238</b>	1.13	2.26	PCI/G
SC-39603-U	3/10/2000	<b>URANIUM-238</b>	1.04	2 08	PCI/G
SC-39604-U	3/10/2000	URANIUM-238	1.135	2.27	PCI/G
SC-39605-U	3/10/2000	<b>URANIUM-238</b>	1 115	2 23	PCI/G
SC-39606-U	3/10/2000	URANIUM-238	1 095	2 19	PCI/G
SC-39607-U	3/10/2000	URANIUM-238	0.86	1 72	PCI/G
SC-39608-U	3/10/2000	URANIUM-238	1.085	2.17	PCI/G
SC-39609-U	3/10/2000	URANIUM-238	4.05	2 34	PCI/G
SC-39610-U	3/10/2000	URANIUM-238	1.05	2 1	PCI/G
SC-39611-U	3/10/2000	URANIUM-238	1.145	2 29	PCI/G
SC-39612-U	3/10/2000	URANIUM-238	1 115	2 23	PCI/G

# APPENDIX C RU018 Sample Location Coordinates

SAMPLE LOCATION	NORTHING	EASTING	ELEVATION
SC-17002-S	1044619.51	754717.31	645.96
SC-17003-S	1044603.43	754746.05	645.24
SC-17004-S	1044587.47	754774.57	645.02
SC-17005-S	1044571.41	754803.23	645.36
SC-17007-S	1044590.91	754701.28	642.26
SC-17008-S	1044574.82	754730.00	643.00
SC-17009-S	1044558.78	754758.65	643.23
SC-17010-S	1044542.74	754787.30	643.56
SC-17011-C	1044581.53	754684.45	641.80
SC-17012-S	1044562.27	754685.28	642.46
SC-17013-S	1044546.16	754714.11	643.25
SC-17014-S	1044530.18	754742.56	643.74
SC-17015-S	1044514.18	754771.19	644.46
SC-17017-S	1044533.62	754669.27	641.23
SC-17018-S	1044517.61	754697.86	639.77 644.35
SC-17019-S	1000501.55	754726.56	644.65
SC-17020-S	1044485.55	754755.11	641.69
SC-17021-C	1044524.29	754652.36	642.09
SC-17022-S	1044504.97	754653.33	643.92
SC-17023-S	1044488.95	754681.90 754710.52	644.33
SC-17024-S	1044472.94	754739.17	645.25
SC-17025-S	1044456.91 1044555.42	754739.17 754831.76	645.86
SC-17101-S		754860.50	645.61
SC-17102-S	1044539.35 1044523.34	754889.11	645.16
SC-17103-S	1044507.30	754917.75	644.05
SC-17104-S	1044507.30	754815.88	643.73
SC-17105-S	1044510.76	754844.42	643.87
SC-17106-S	1044494.72	754873.05	643.79
SC-17107-S	1044478.63	754901.91	644.01
SC-17108-S SC-17109-S	1044498.13	754799.83	644.33
SC-17110-S	1044482.09	754828.51	644.99
SC-17111-S	1044466 08	754857.10	644.38
SC-17112-S	1044450.05	754885.70	644.64
SC-17113-S	1044469.49	754783.88	644.89
SC-17114-S	1044453.50	754812.34	645.64
SC-17115-S	1044437.48	754840.98	645.81
SC-17116-S	1044421.43	754869.73	645.29
SC-17117-S	1044440.89	754767.70	645.46
SC-17118-S	1044424.87	754796.29	645.98
SC-17119-S	1044408.82	754825.03	646.39
SC-17120-S	1044392.81	754853.61	646.45
SC-17121-S	1044412.27	754751.68	645.48
SC-17122-S	1044396.23	754780.42	646.07
SC-17123-S	1044380.22	754809.01	646.70
SC-17124-S	1044364.19	754837.64	646.96
SC-17201-S	1044491.28	754946.38	643.13
SC-17202-S	1044475.28	754974.95	642.91
SC-17203-C	1044457.16	755021.38	645.21
SC-17103-S	1044459.24	755003.60	642.22
SC-17204-S	1044443.18	755032.30	641.30
SC-17205-C	1044426.10	755079.24	645.52
SC-17205-S	1044427.16	755060.92	641.63 640.70
SC-17206-S	1044411.13	755089.64	639.84
SC-17207-S	1044395.25	755118.22	643.82
SC-17208-S	1044462.68	754930.26	643.49
SC-17209-S	1044446.83	754958.22 754987.48	643.12
SC-17210-S	1044430.63	755016.19	642.61
SC-17211-S	1044414.59	755044.75	642.28
SC-17212-S	1044398.55	755073.34	641.44
SC-17213-S	1044382.49	755116.34	645.36
SC-17214-C	1044377.11 1044366.60	755102.14	640.43
SC-17214-S	1044366.60	754914.35	644.78
SC-17215-S	1044434.03	137314.33	J

SC-17216-S	1044418.00	754943.00	642.89
SC-17217-S	1044401.98	754971 51	643 92
SC-17218-S	1044385.96	755000.13	643 01
SC-17219-S	1044369.98	755028.92	642 57
SC-17220-S	1044353.95	755057.48	642 18
SC-17221-C	1044348.14	755101.05	646 14
SC-17221-S	1044337.80	755086 00	639 23
SC-17222-S			
	1044405.41	754898.35	644 77
SC-17223-S	1044389.39	754926 90	644 58
SC-17224-S	1044373.37	754955.56	643.81
SC-17225-S	1044357.34	754984 14	642.42
SC-17226-S	1044341.34	755012 83	
			642.69
SC-17227-S	1044325.21	755041.33	<u>641 78</u>
SC-17228-S	1044309.31	755070.06	639.50
SC-17301-S	1044376 78	754882.18	645.85
SC-17302-S	1044360 73	754910.69	644 47
SC-17303-S	1044344 77	<del></del>	
		754939 61	643 84
SC-17304-S	1044328.75	754968 20	643 38
SC-17305-S	1044312.67	754996 72	642.71
SC-17306-S	1044296 76	755025 45	641 24
SC-17307-S	1044280.63	755054 00	639 20
SC-17308-S			
	1044348 15	<b>754866</b> 19	646.25
SC-17309-S	1044332.12	754894 80	643 99
SC-17310-S	1044316 13	754923 52	644.43
SC-17311-S	1044300 17	754952 23	643.50
SC-17312-S	1044283 98	754980 64	642.63
SC-17313-S	1044268 08	755009 39	641.46
SC-17314-S	1044252 07	755038 01	639.44
SC-17315-S	1044319 57	754850 30	646.15
SC-17316-S	1044303.56	754878 94	644.43
SC-17317-S	1044287 41	754907.31	645.22
SC-17318-S	1044271.50	754936 12	644 04
SC-17319-S	1044255 31	754964 55	643.08
SC-17320-S	1044239 16	754993 11	641.72
SC-17321-S	1044223 44	755021.97	638.60
SC-17402-S			
	1044476.35	754637 30	642 31
SC-17403-S	1044460 36	754665 80	643 73
SC-17404-S	10 <del>44444</del> 33	754694 29	644 04
SC-17405-S	1044428.28	754723 09	644 78
SC-17407-S	1044447 72	754621 40	640 92
SC-17408-S			
	1044431.73	754650.01	643 12
SC-17409-S	1044415 70	754678.58	643 50
SC-17410-S	1044399 66	754706.84	644 86
SC-17411-S	1044383.64	754735 53	644 51
SC-17412-S	1044367.62	754764.35	645 74
SC-17413-S	1044351.59	754792 96	
			646 84
SC-17414-S	1044335.55	754821 50	647 50
SC-17416-S	1044419.12	754605 14	641 35
SC-17417-S	1044403.09	754633.88	643 18
SC-17418-S	1044387.08	754662.65	643.88
SC-17419-S	1044371.05	754691 17	
			644 79
SC-17420-S	1044355.01	754719.67	644.94
SC-17421-S	1044339.00	754748 35	646 23
SC-17422-S	1044322.95	754776 90	646.85
SC-17423-S	1044306.99	754805 71	647 18
SC-17501-C	1044409.83	754588 04	
			643.20
SC-17502-S	1044390.46	754589 08	641.32
SC-17503-S	1044374 47	754617 76	<u>643</u> 06
SC-17504-S	1044358.44	754646 39	643 41
SC-17506-S	1044361.88	754573 00	641 13
SC-17507-S	1044345.83	754601 83	642 41
SC-17508-S	1044329 79	754630 32	642 18
SC-17509-C	1044352 56	754555 96	643.83
SC-17510-S	1044333.24	754557 25	640 97
SC-17511-S	1044285 08	754642 63	643 51
) 5C-1/511-5			

SC-17512-S	1044301.16	754614.18	642.29
SC-17514-S	1044304.60	754540.93	640.21
SC-17515-S	1044288.57	754569.57	642.45
	1044272.58	754598.32	642.77
SC-17516-S			647.28
SC-17517-C	1044295.30	754523.73	
SC-17518-S	1044275.97	754524.88	645.81
SC-17519-S	1044259.98	754553.73	641.80
SC-17520-S	1044243.88	754582.13	642.61
SC-17522-S	1044247.37	754509.05	643.08
	1044231.32	754537.60	639.82
SC-17523-S			641.90
SC-17524-S	1044215.40	754566.41	
SC-17601-S	1044342.39	754674.83	644.33
SC-17602-S	1044326.36	754703.54	645.05
SC-17603-S	1044310.35	754732.24	645.62
SC-17604-S	1044294.28	754760.66	646.39
SC-17605-S	1044278.35	754789.58	646.77
		754658.89	644.03
SC-17606-S	1044313.78		
SC-17607-S	1044297.78	754687.66	644.48
SC-17608-S	1044281.71	754716.16	645.25
SC-17609-S	1044265.69	754744.82	645.87
SC-17610-S	1044249.67	754773.43	646.42
SC-17611-S	1044285.08	754642.63	643.51
	1044269.02	754671.21	643.54
SC-17612-S			644.55
SC-17613-S	1044253.10	754700.17	
SC-17614-S	1044237.04	754728.70	645.73
SC-17615-S	1044221.17	754757.71	645.72
SC-17616-S	1044256.57	754627.05	643.18
SC-17617-S	1044250.50	754655.55	643.85
	1044224.38	754683.97	644.44
SC-17618-S		754712.86	644.67
SC-17619-S	1044208.50		
SC-17620-S	1044192.35	754741.28	644.87
SC-17701-S	1044290.87	754834.07	646.80
SC-17702-S	1044274.86	754862.74	645.34
SC-17703-S	1044258.79	754891.35	644.70
SC-17704-S	1044242.67	754919.84	643.52
	1044262.19	754817.96	646.39
SC-17705-S			645.19
SC-17706-S	1044246.35	754846.93	
SC-17707-S	1044230.23	754875.39	643.92
SC-17708-S	1044214.05	754903.83	643.47
SC-17709-S	1044233.65	754802.10	645.64
SC-17710-S	1044217.68	754830.82	644.24
	1044201.60	754859.37	644.10
SC-17711-S		754887.94	643.39
SC-17712-S	1044185.53		
SC-17713-S	1044205.02	754786.09	645.44
SC-17714-S	1044189.08	754814.80	644.27
SC-17715-S	1044173.01	754843.39	643.66
SC-17716-S	1044156.86	754871.88	643.16
SC-17717-S	1044176.37	754770.00	644.11
	1044160.41	754798.74	644.00
SC-17718-S		754827.55	643.30
SC-17719-S	1044144.57		
SC-17720-S	1044128.34	754855.95	642.31
SC-17801-S	1044226.80	754948.65	643.10
SC-17802-S	1044210.77	754977.29	641.71
SC-17803-C	1044203.21	755024.54	646.35
SC-17803-S	1044194.66	755005.87	637.83
		754932.47	642.87
SC-17804-S	1044197.99		641.78
SC-17805-S	1044182.15	754961.26	
SC-17806-C	1044174.36	755009.30	646.63
SC-17806-S	1044166.08	754989.88	637.61
SC-17807-S	1044169.48	754916.56	642.88
SC-17808-S	1044153.39	754945.15	641.80
		754973.80	638.21
SC-17809-S	1044137.39		642.34
	4044440.04		
SC-17810-S	1044140.81	754900.50	
	1044140.81 1044125.00 1044115.83	754929.30 754978.41	641.49 645.95

SC-17812-S	1044109.03	754957 94	639.22
SC-17813-S	1044112 42	754884.66	641 90
SC-17814-S	1044095.87	754912.92	641.45
SC-17815-S			
	1044080 15	754941.75	639.38
SC-17816-S	1044083.45	<b>7548</b> 68 37	640 93
SC-17817-S	1044067.65	754897 18	641 45
SC-17818-C	1044058.02	754947 87	646.75
SC-17818-S	1044051.68	754925 81	640 72
SC-17819-S	1044055.33		
		754852 74	641.63
SC-17820-S	1044038.67	754880.91	640.44
SC-17821-S	1044023.11	754909 82	639.19
SC-17822-S	1044007 10	754938 45	649.95
SC-17901-S	1044163.50	754725 26	644 67
SC-17902-S	1044147.41	754753.83	
SC-17903-S			643 17
	1044131.88	754782.71	643 78
SC-17904-S	1044115 70	754811 27	<u>642.61</u>
SC-17905-S	1044099 65	754839.84	641.72
SC-17906-S	1044134 99	754709.29	644 49
SC-17907-S	1044119.45	754738.16	644 72
SC-17908-S	1044103 17	754766.65	
			643 57
SC-17909-S	1044086.89	754795 11	641 31
SC-17910-S	1044070.89	754823.73	641 63
SC-17911-S	1044106.40	754693 27	644 11
SC-17912-S	1044090.35	754721 87	644 86
SC-17913-S	1044074.64	754750.68	
SC-17914-S	1044058.56		644 37
		754779.30	642.23
SC-17915-S	1044042 70	754808 07	641.49
SC-17916-S	1044077 81	754677 26	643.64
SC-17917-S	1044061.53	754705 77	644 18
SC-17918-S	1044045.90	754734 59	644 05
SC-17919-S			
	1044029.85	754763 21	642 51
SC-17920-S	1044013 96	754791.94	641 15
SC-18001-S	1044227 90	754610 95	642 55
SC-18002-S	1044211 91	754639 51	642 97
SC-18003-S	1044195.68	754668 08	643 62
SC-18004-S	1044179 40	754696 60	
SC-18005-S			643 65
	1044199 78	754594.93	642 83
SC-18006-S	1044182 95	754623 43	643 12
SC-18007-S	1044167 09	754652 06	643 52
SC-18008-S	1044150.83	754680.62	643 74
SC-18011-S	1044202.47	754521 57	645 99
SC-18012-S	1044186.23		
		754550 17	638.86
SC-18013-S	1044170.90	75578 85	642.52
SC-18014-S	1044154.60	754607 45	643 66
SC-18015-S	1044138 87	754636 16	643 95
SC-18016-S	1044122 41	754664 66	644 01
SC-18018-S	1044173.82	754505 55	643 54
SC-18019-S	1044158.16	754534 19	645 25
SC-18020-S	1044142 16	754562.83	641 95
SC-18021-S	1044126.23	754591.44	642 82
SC-18022-S	1044109 59	754619 96	643 35
SC-18023-S	1044093.75	754648 63	643 87
SC-18102-C	1044151.87		
		754513.93	643.82
SC-18103-S	1044129.39	754518 16	642.63
SC-18104-S	1044113.59	754544 32	645 70
SC-18105-S	1044097 27	754575.40	641 11
SC-18106-S	1044081 49	754604 03	641 23
SC-18108-S	1044100 77	75402 11	
			639 02
SC-18109-S	1044084.75	754530 75	640 16
SC-18110-S	1044068.60	<b>7545</b> 59 35	638 24
SC-18111-S	1044052.96	754588 04	639 49
SC-18114-C	1044078.61	754511 90	638 31
SC-18114-S-RS	1044056.62	754514 59	635.27
SC-18115-S-RS			
	1044040 39	754543 30	632 17
SC-18116-S-RS	1044024 49	754571 96	636 28

SC-18119-S	1044011.35	754527.31	633.55
SC-18120-S	1043995.55	754555.95	640.78
SC-18122-S	1043982.80	754511.30	633.31
SC-18123-S	1043966.88	754539.93	635.06
	1043930.41	754541.44	636.14
SC-18124-S			
SC-18126-S	1043938.29	754523.89	635.57
SC-18127-S	1043953.43	754562.62	634.41
SC-18201-S	1044065.12	754632.60	642.42
SC-18202-S	1044049.32	754661.29	642.75
SC-18203-S	1044033.12	754689.83	642.96
SC-18204-S	1044017.17	754718.50	643.33
SC-18205-S	1044037.01	754616.72	640.15
SC-18206-S	1044021.00	754645.39	641.42
SC-18207-S	104404.51	754673.82	641.67
SC-18208-S	1043988.54	754702.48	641.99
	1044008.20	754600.64	629.74
SC-18209-S		754629.23	639.66
SC-18210-S	1043992.04		639.90
SC-18211-S	1043976.07	754657.88	
SC-18212-S	1043960.50	754686.81	641.36
SC-18213-S	1043979.24	754584.63	637.00
SC-18214-S	1043963.18	754613.34	639.02
SC-18215-S	1043947.37	754641.82	640.86
SC-18216-S	1043931.49	754670.39	640.92
SC-18217-S	1043951.04	754568.58	642.64
SC-18218-S	1043934.60	754597.11	637.09
SC-18219-S	1043918.73	754625.79	634.78
	1043903.10	754654.42	640.05
SC-18220-S		754836.51	641.31
SC-18301-S	1044026.45		639.73
SC-18302-S	1044010.45	754865.18	
SC-18303-S	1043994.46	754893.85	638.68
SC-18304-S	1043978.01	754921.89	647.91
SC-18305-S	1043997.84	754820.50	641.16
SC-18306-S	1043981.50	754848.79	640.40
SC-18307-S	1043965.48	754877.90	637 74
SC-18308-S	1043949.59	754906.16	647.13
SC-18309-S	1044001.40	754747.04	642.63
	1043985.19	754775.80	641.61
SC-18310-S	1043969.21	754804.37	640.17
SC-18311-S		754833.04	639.36
SC-18312-S	1043953.16		636.84
SC-18313-S	1043937.28	754861.51	
SC-18314-S	1043921.03	754890.33	646.32
SC-18315-S	1043972.50	754731.20	. 641.94
SC-18316-S	1043956.66	754759.70	<u>641.15</u>
SC-18317-S	1043940.16	754787.99	640.25
SC-18318-S	1043924.40	754816.91	638.96
SC-18319-S	1043908.44	754845.57	638.34
SC-18319-S	1043892.45	754874.27	646.67*
	1043944.02	754715.15	641.02
SC-18321-S		754743.83	642.00
SC-18322-S	1043928.03	754772.41	636.53
SC-18323-S	1043911.95		639.58
SC-18324-S	1043896.00	754800.76	
SC-18325-S	1043879.96	754829.36	638.33
SC-18326-S	1043864.00	754857.91	645.51
SC-18401-S	1043915.32	754699.07	635.16
SC-18402-S	1043899.47	754727.77	641.09
SC-18403-S	1043883.34	754756.06	640.41
SC-18404-S	1043867.32	754784.82	639.64
SC-18405-S	1043851.43	754813.15	638.12
	1043835.17	754842.27	645.30
SC-18406-S	1043886.56	754682.98	640.44
SC-18407-S		754711.69	640.52
SC-18408-S	1043870.62		
SC-18409-S	1043854.50	754740.23	639.87
SC-18410-S	1043838.65	754768.92	639.59
SC-18411-S	1043822.73	754797.20	638.37
SC-18412-S	1043806.51	754826.40	646.59

SC-18414-S 1043842.04 754695.67 639.97 SC-18416-S 1043826.89 754724.23 639.54 SC-18416-S 1043810.03 754752.80 638.83 SC-18418-S 1043777.94 754810.16 846.48 SC-18418-S 1043777.94 754810.16 846.48 SC-18418-S 1043829.41 754850.99 639.19 SC-18418-S 1043829.41 754850.99 639.19 SC-18418-S 1043829.41 754850.99 639.19 SC-1842-S 1043833.36 754797.50 638.83 SC-18421-S 1043877.34 754708.23 639.45 SC-18422-S 1043781.33 754737.05 638.85 SC-18422-S 1043785.34 754758.39 639.83 SC-18423-S 1043765.34 754756.39 639.83 SC-18423-S 1043765.34 754756.39 639.83 SC-18423-S 1043765.34 754756.39 645.92 SC-18501-S 1043922.19 754552.53 638.15 SC-18501-S 1043989.99 754609.74 638.41 SC-18502-S 104386.02 754581.11 637.09 SC-18508-S 1043889.99 754609.74 638.41 SC-18508-S 104389.98 754609.74 638.41 SC-18508-S 104389.98 754609.74 638.41 SC-18508-S 104389.98 754609.74 638.41 SC-18508-S 104389.98 754509.78 SC-18508-S 104389.98 754509.78 SC-18508-S 104389.35 SC-18508-S 104389.55 75453.48 630.64 SC-18508-S 104389.55 75453.48 630.64 SC-18508-S 104389.55 75453.48 630.64 SC-18508-S 104389.55 75453.48 630.64 SC-18508-S 104389.55 75453.48 630.64 SC-18508-S 104389.55 75453.48 630.64 SC-18508-S 104389.55 75453.48 630.64 SC-18508-S 104389.55 75453.48 630.64 SC-18508-S 104389.55 75453.48 630.64 SC-18508-S 104389.55 75453.48 630.64 SC-18508-S 104389.55 75453.49 633.82 SC-18508-S 104389.55 75453.49 633.82 SC-18508-S 104389.55 75453.49 633.82 SC-18508-S 104389.55 75453.49 07 633.82 SC-18508-S 104389.55 75453.49 07 633.82 SC-18508-S 104389.69 75460.30 633.71 SC-18508-S 104389.69 75460.30 633.71 SC-18508-S 104389.69 75460.30 636.21 SC-18508-S 104389.69 75460.30 636.21 SC-18508-S 104389.69 75460.30 633.71 SC-18508-S 104380.99 75460.30 633.71 SC-18508-S 104380.99 75460.30 633.71 SC-18508-S 104380.99 75460.30 6				
SC-18415-S 104380103 754752 80 638 93 SC-18417-S 1043794 08 754752 80 638 93 SC-18417-S 1043794 08 754751 30 638 13 SC-18417-S 1043794 08 754751 30 638 13 SC-18418-S 1043777 94 754810 16 646 48 SC-18418-S 1043820 41 754850 99 639 19 SC-18419-S 1043820 41 754850 99 639 19 SC-18419-S 1043820 41 754850 99 639 19 SC-18419-S 1043820 41 754850 99 639 19 SC-18420-S 1043813 36 754757 63 638 40 SC-18422-S 10437613 37 754750 23 638 45 SC-18422-S 10437613 37 754757 05 638 55 SC-18422-S 1043765 34 754765 39 639 83 SC-18422-S 1043769 42 754793 80 645 82 SC-18422-S 1043769 42 754793 80 645 82 SC-18422-S 1043769 42 754793 80 645 82 SC-18502-S 104386 02 754591 11 637 08 SC-18502-S 104386 02 754591 11 637 08 SC-18502-S 104386 02 754591 11 637 08 SC-18502-S 104386 99 754609 74 633 41 SC-18503-S 1043869 99 754609 74 633 41 SC-18503-S 1043869 99 754609 74 633 41 SC-18503-S 1043869 99 754609 74 633 80 SC-18503-S 1043869 99 754609 74 633 80 SC-18503-S 1043861 34 754593 76 633 81 SC-18503-S 1043861 34 754593 76 633 81 SC-18503-S 1043861 34 754593 76 633 81 SC-18503-S 1043861 34 754593 76 633 81 SC-18503-S 1043864 92 754504 80 SC-18503-S 1043864 92 754504 80 SC-18510-S 1043864 92 754504 96 633 82 SC-18510-S 1043864 92 754504 80 SC-18510-S 1043864 92 754504 96 S33 82 SC-18510-S 1043864 92 754504 96 S33 82 SC-18510-S 1043864 92 754504 97 S53 30 S3 88 SC-18510-S 1043864 92 754504 97 S53 30 S3 88 SC-18510-S 1043864 92 754504 97 S53 30 S3 80 SC-18510-S 1043864 92 754504 97 S53 30 S3 80 SC-18510-S 1043864 92 754504 97 S53 30 S3 80 SC-18510-S 1043864 92 754504 97 S53 30 S3 80 SC-18510-S 1043864 92 754504 97 S53 30 S3 80 SC-18510-S 1043864 92 754504 97 S53 30 S3 80 SC-18510-S 1043864 92 754504 97 S53 30 S3 80 SC-18510-S 1043864 92 754504 97 S53 30 S3 80 SC-18510-S 1043864 92 754504 97 S53 30 S53 80 S53 90 S53	SC-18413-S	1043857.99	754667.00	639 76
SC-18416-S 1043810.03 754752.80 638.93 SC-18417-S 1043779.06 754752.80 638.93 SC-18418-S 1043777.94 754810.16 046.48 SC-18418-S 1043877.34 754850.99 633.13 SC-18420-S 1043813.36 754879.63 633.40 SC-18421-S 1043877.34 754708.23 639.45 SC-18421-S 1043787.34 754708.23 639.45 SC-18422-S 1043787.34 754708.23 639.45 SC-18422-S 1043785.34 754708.23 639.45 SC-18423-S 1043785.34 754708.23 639.83 SC-18423-S 1043785.34 754708.23 639.83 SC-18423-S 1043785.34 754708.23 639.83 SC-18423-S 1043786.34 754708.30 645.92 SC-18503-S 104389.99 754609.74 633.41 SC-18503-S 104389.99 754609.74 633.41 SC-18503-S 104389.99 754609.74 633.84 SC-18503-S 104389.99 754609.74 633.86 SC-18503-S 104389.99 754609.74 633.86 SC-18503-S 104389.99 754609.74 633.86 SC-18503-S 104389.99 754609.74 633.86 SC-18503-S 104389.99 754609.74 633.86 SC-18503-S 104389.99 754609.74 633.86 SC-18503-S 104389.39 754538.43 639.22 SC-18503-S 104389.39 754538.43 639.22 SC-18503-S 104389.39 754538.49 633.86 SC-18503-S 104389.39 754538.49 633.86 SC-18503-S 104389.39 754538.49 633.86 SC-18503-S 104389.39 754538.49 633.86 SC-18503-S 104389.39 75459.79 75459	SC-18414-S	1043842.04	754695.67	639.91
SC-18417-S 1043794.06 754781.30 S38.13 SC-18418-S 1043777.94 754810.16 646.48 SC-18419-S 1043829.41 754850.99 633.19 SC-18420-S 1043813.36 754679.63 639.40 SC-18421-S 104377.34 754708.23 639.40 SC-18422-S 1043781.33 754737.05 639.50 SC-18422-S 1043781.33 754737.05 639.50 SC-18422-S 1043786.34 754765.39 639.83 SC-18422-S 1043768.34 754765.39 639.83 SC-18424-S 1043749.42 754793.80 645.82 SC-18502-S 104396.02 754581.11 637.08 SC-18502-S 104386.02 754581.11 637.08 SC-18502-S 104386.02 754581.11 637.08 SC-18502-S 104386.98 754608.74 633.86 SC-18502-S 104386.98 754608.74 633.86 SC-18502-S 104386.98 754608.74 633.86 SC-18502-S 104386.98 754608.74 633.86 SC-18502-S 104386.98 754508.77 633.86 SC-18502-S 104386.98 754508.77 633.86 SC-18502-S 104386.98 754508.77 633.86 SC-18502-S 104386.98 754508.77 633.86 SC-18502-S 104386.98 754508.77 633.86 SC-18502-S 104386.35 754538.49 633.82 SC-18502-S 104386.34 754522.38 638.88 SC-18503-S 1043877.50 754585.18 635.50 SC-18503-S 1043877.50 754585.18 635.50 SC-18503-S 104386.34 754522.38 638.88 SC-18513-S 104386.99 754504.45 633.82 SC-18513-S 104386.99 754504.45 633.82 SC-18514-S 104386.99 754504.45 632.55 SC-18518-S 104386.99 754504.45 632.55 SC-18518-S 104386.99 754506.30 636.21 SC-18518-S 104386.29 754550.47 633.82 SC-18518-S 104386.29 754550.47 633.82 SC-18518-S 104386.29 754550.47 633.82 SC-18518-S 104386.29 754550.47 633.82 SC-18518-S 104386.29 754550.47 633.82 SC-18518-S 104386.29 754550.47 633.82 SC-18518-S 104386.99 754560.30 636.21 SC-18522-S 104386.29 754550.47 633.30 SC-18522-S 104386.29 754550.47 633.30 SC-18523-S 104386.90 754660.30 636.21 SC-18523-S 104386.90 754660.30 636.21 SC-18523-S 104386.20 754560.30 633.31 SC-18523-S 104386.90 754660.30 633.31 SC-18603-S 104376.81 775468.30 10 633.31 SC-18603-S 104376.81 775468.30 10 633.31 SC-18603-S 1043	SC-18415-S	1043825.89	754724.23	639.54
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\$\( \text{Sc18418-S} \) \$\( 1043777 94 \) \$\( 754670 63 \) \$\( 633 19 \) \$\( 55.18420.S \) \$\( 1043613.36 \) \$\( 754670 63 \) \$\( 633 40 \) \$\( 55.18420.S \) \$\( 1043613.36 \) \$\( 754670 63 \) \$\( 633 40 \) \$\( 55.18420.S \) \$\( 1043613.36 \) \$\( 754670 63 \) \$\( 633 40 \) \$\( 55.18422.S \) \$\( 10436761.33 \) \$\( 75470 62.3 \) \$\( 633 45 \) \$\( 55.18422.S \) \$\( 1043761.33 \) \$\( 754765.39 \) \$\( 638 53 \) \$\( 55.18422.S \) \$\( 1043761.33 \) \$\( 754765.39 \) \$\( 638 53 \) \$\( 55.18422.S \) \$\( 1043761.33 \) \$\( 754765.39 \) \$\( 638 53 \) \$\( 55.18422.S \) \$\( 1043761.33 \) \$\( 754765.39 \) \$\( 638 53 \) \$\( 55.18501.S \) \$\( 1043860.2 \) \$\( 754582.53 \) \$\( 638 11 \) \$\( 637.08 \) \$\( 55.18502.S \) \$\( 104386.02 \) \$\( 754582.53 \) \$\( 638 11 \) \$\( 637.08 \) \$\( 55.18502.S \) \$\( 104389.99 \) \$\( 754690.74 \) \$\( 633.44 \) \$\( 633.44 \) \$\( 633.64 \) \$\( 633.66 \) \$\( 633.66 \) \$\( 633.66 \) \$\( 633.66 \) \$\( 633.66 \) \$\( 633.66 \) \$\( 633.66 \) \$\( 635.66 \) \$\( 6	SC-18417-S	1043794.06	754781 30	
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SC-18504-S  C-18506-S  1043909.45  T54506-R  SC-18507-S  1043893.55  T54536-84  G30.64  SC-18508-S  1043893.55  T54536-84  G30.64  SC-18509-S  1043893.55  T54556-84  G33.86  SC-18509-S  1043881.34  T54593.76  G33.86  SC-18510-S  1043881.34  T54593.76  G33.81  SC-18510-S  1043884.544  T54622.38  G38.88  SC-18513-S  1043884.544  T54622.38  G38.88  SC-18513-S  1043846.91  T54549-07  G34.36  SC-18515-S  1043848.91  T54549-07  G34.36  SC-18515-S  1043848.91  T54549-07  G34.36  SC-18516-S  1043816.86  T54606.30  G36.21  SC-18518-S  1043816.86  T54606.30  G36.21  SC-18519-S  104382.27  T54533.07  G34.27  SC-18519-S  104382.27  T54553.07  G34.27  SC-18520-S  1043945.31  T54568.06  G33.18  SC-18523-S  1043916.51  T54568.06  G33.38  SC-18501-S  1043945.31  T54568.06  G33.38  SC-18501-S  1043945.31  T54568.06  G33.38  SC-18503-S  1043976.51  SC-18503-S  1043976.51  SC-18503-S  1043976.51  SC-18503-S  1043976.51  SC-18503-S  1043976.51  SC-18503-S  1043778.77  T54721.03  G36.02  SC-18600-S  1043778.77  T54721.03  G36.02  SC-18600-S  1043778.77  T54721.03  G36.02  SC-18600-S  1043778.77  T54721.03  G36.02  SC-18608-S  1043778.77  T54721.03  G36.02  SC-18608-S  1043778.77  T54721.03  G36.02  SC-18608-S  1043778.77  T54721.03  G36.02  SC-18608-S  1043778.17  T54749.47  G38.69  SC-18608-S  1043778.57  T54779.99  G22.00  SC-18608-S  1043778.17  T54749.47  G38.69  SC-18608-S  1043778.17  T54749.47  G38.69  SC-18608-S  1043778.17  T54749.47  G38.69  SC-18608-S  1043778.17  T54749.47  G38.69  SC-18608-S  1043778.17  T547479.99  G22.00  T54683.10  G22.00  T54683.10  G22.00  T54683.10  G22.00  T54683.10  G33.71  G33.71  G33.71  G440.72  G440.72  G440.72  G440.72  G440.72  G440.72  G440.72  G440.	SC-18502-S	104396.02	754581 11	637.08
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SC-18516-S         1043816.86         754606.30         636.21           SC-18518-S         1043836.29         754504.45         632.25           SC-18519-S         1043802.27         754533.07         634.27           SC-18521-S         1043804.26         754561.77         634.07           SC-18521-S         1043788.23         754563.10         633.71           SC-18522-S         1043916.51         754563.10         633.71           SC-18523-S         1043945.31         754568.06         631.38           SC-18601-S         1043800.80         754635.99         637.36           SC-18602-S         1043784.80         754635.54         640.78           SC-18603-S         1043768.77         754692.17         640.42           SC-18603-S         1043758.77         754721.03         636.02           SC-18604-S         1043752.77         754721.03         636.02           SC-18605-S         10437736.71         754749.47         638.69           SC-18606-S         1043772.33         754619.0         629.20           SC-18606-S         1043772.37         754778.52         644.25           SC-18608-S         104376.17         754647.70         62.79           SC-18609-		1043848.91		634.36
SC-18516-S         1043816.86         754606.30         636.21           SC-18518-S         1043836.29         754504.45         632.25           SC-18519-S         1043820.27         754533.07         634.27           SC-18520-S         1043804.26         754561.77         634.07           SC-18521-S         1043788.23         754563.10         633.71           SC-18522-S         1043916.51         754563.10         633.71           SC-18523-S         1043945.31         754568.06         631.38           SC-18601-S         1043800.80         754635.99         637.36           SC-18602-S         1043784.80         754635.99         637.36           SC-18603-S         1043768.77         754692.17         640.42           SC-18604-S         1043756.77         754721.03         636.02           SC-18604-S         1043736.71         754749.47         638.69           SC-18606-S         1043736.71         754779.47         640.42           SC-18606-S         1043772.33         754619.0         629.20           SC-18606-S         1043772.37         754778.52         644.25           SC-18608-S         1043769.17         7546619.0         627.96           SC-18609	SC-18515-S	1043832.85	754577 81	635.03
SC-18518-S         1043836.29         754504.45         632.55           SC-18519-S         1043820.27         754533.07         634.27           SC-18521-S         1043804.26         754561.77         634.07           SC-18521-S         1043788.23         754590.36         635.19           SC-18522-S         1043916.51         754568.06         633.71           SC-18523-S         1043963.31         754568.06         631.38           SC-18601-S         1043906.30         754635.09         637.36           SC-18602-S         1043784.80         754663.54         640.78           SC-18603-S         1043768.77         754692.17         640.42           SC-18604-S         1043758.77         754692.17         640.42           SC-18605-S         1043736.71         754721.03         636.02           SC-18605-S         1043720.57         754778.52         644.25           SC-18605-S         1043720.57         754778.52         644.25           SC-18608-S         1043772.23         754671.04         629.20           SC-18608-S         1043740.13         754676.16         626.64           SC-18608-S         1043740.13         754676.16         626.53           SC-1861		1043816.86		
SC-18519-S         1043820.27         754533.07         634.27           SC-18520-S         1043804.26         75456177         634.07           SC-18521-S         1043788.23         754590.36         635.19           SC-18522-S         1043916.51         754563.10         633.71           SC-18523-S         1043945.31         754568.06         631.38           SC-18601-S         1043800.80         754663.54         640.78           SC-18602-S         1043768.77         754692.17         640.42           SC-18603-S         1043768.77         754692.17         640.42           SC-18604-S         1043752.77         754749.47         638.69           SC-18605-S         1043736.71         754749.47         638.69           SC-18606-S         1043720.57         754778.52         644.25           SC-18606-S         1043720.57         754778.52         644.25           SC-18608-S         1043756.17         754649.70         629.20           SC-18608-S         1043740.13         754670.16         629.20           SC-18608-S         1043740.13         754671.6         626.64           SC-18610-S         1043740.13         754671.99         626.32           SC-18611-	SC-18518-S			
SC-18520-S         1043804.26         754561 77         634.07           SC-18521-S         1043788.23         754590.36         635.19           SC-18522-S         1043916.51         754568.10         633.71           SC-18523-S         1043945.31         754568.06         631.38           SC-18601-S         1043800.80         754635.09         637.36           SC-18602-S         1043784.80         754663.54         640.78           SC-18603-S         1043786.77         754692.17         640.42           SC-18604-S         1043752.77         754721.03         636.02           SC-18605-S         1043736.71         754749.47         638.69           SC-18605-S         1043720.57         754778.52         644.25           SC-18606-S         1043720.57         754778.52         644.25           SC-18608-S         1043772.23         754619.04         629.20           SC-18608-S         1043740.13         754676.16         62.64           SC-18610-S         1043740.13         754676.16         62.64           SC-18610-S         1043740.13         754676.16         62.654           SC-18611-S         1043724.18         754704.99         626.32           SC-18611-				
SC-18521-S         1043788.23         754590.36         635.19           SC-18522-S         1043916.51         754563.10         633.71           SC-18523-S         1043945.31         754568.06         631.38           SC-18601-S         1043800.80         754635.09         637.36           SC-18602-S         1043784.80         754663.54         640.78           SC-18603-S         1043786.77         754692.17         640.42           SC-18604-S         1043752.77         754721.03         636.02           SC-18605-S         1043736.71         754749.47         638.69           SC-18606-S         1043720.57         754778.52         644.25           SC-18606-S         1043720.57         754778.52         644.25           SC-18607-S         1043772.23         754619.04         629.20           SC-18608-S         1043756.17         754647.70         627.96           SC-18609-S         1043740.13         754676.16         626.64           SC-18610-S         1043724.18         754704.99         626.32           SC-18611-S         1043709.14         754733.51         634.49           SC-18611-S         1043709.14         754761.98         643.19           SC-1861				
SC-18522-S         1043916.51         754563 10         633.71           SC-18523-S         1043945.31         754568 06         631.38           SC-18601-S         1043800.80         754635 09         637.36           SC-18602-S         1043764.80         754663.54         640.78           SC-18603-S         1043768.77         754692.17         640.42           SC-18604-S         1043752.77         754721.03         636.02           SC-18605-S         1043736.71         754749.47         638.69           SC-18606-S         1043736.77         754778.52         644.25           SC-18606-S         1043720.57         754778.52         644.25           SC-18607-S         1043772.23         754619.04         622.20           SC-18608-S         10437755.17         754676.16         626.64           SC-18609-S         1043740.13         754676.16         626.64           SC-18610-S         1043724.18         75470.99         62.52           SC-18611-S         1043708.14         75470.39         626.32           SC-18611-S         1043708.14         75476.198         643.19           SC-18611-S         1043721.15         75460.10         624.22           SC-18613-S				
SC-18523-S         1043945.31         754568 06         631.38           SC-18601-S         1043800.80         754635 09         637.36           SC-18602-S         1043784.80         754635.59         640.78           SC-18603-S         1043768.77         754692.17         640.42           SC-18604-S         1043752.77         754721.03         636.02           SC-18605-S         1043736.71         754774.9.47         636.69           SC-18606-S         1043720.57         754779.52         644.25           SC-18607-S         1043772.23         754619.04         629.20           SC-18608-S         1043756.17         754647.70         627.96           SC-18609-S         1043740.13         754676.16         626.64           SC-18610-S         1043724.18         754704.99         626.32           SC-18611-S         1043724.18         754704.99         626.32           SC-18611-S         1043708.14         754733.51         634.49           SC-18611-S         1043743.64         754603.10         626.02           SC-18612-S         1043692.09         754761.98         643.19           SC-18614-S         1043743.64         754603.10         626.02           SC-18				
SC-18601-S         1043800.80         754635.99         637.36           SC-18602-S         1043764.80         754663.54         640.78           SC-18603-S         1043768 77         754663.54         640.78           SC-18604-S         1043752 77         754721 03         636 02           SC-18605-S         1043736.71         754749.47         638 69           SC-18606-S         1043720.57         754778.52         644 25           SC-18607-S         1043772.23         754619.04         629 20           SC-18608-S         1043756.17         754677.0         627 96           SC-18609-S         1043740.13         754676.16         626.64           SC-18610-S         1043740.13         754676.16         626.64           SC-18610-S         1043740.13         754676.16         626.64           SC-18610-S         1043724.18         754704.99         626.32           SC-18610-S         1043768.14         754733.51         634.49           SC-18612-S         1043692.09         754761.98         643.19           SC-18613-S         1043743.64         754603.10         626.02           SC-18614-S         1043727.51         754653.15         624.32           SC-18615				
SC-18602-S         1043784.80         754663.54         640.78           SC-18603-S         1043768 77         754692.17         640.42           SC-18604-S         1043752 77         754721 03         636 02           SC-18605-S         1043736.71         754749.47         638 69           SC-18606-S         1043720.57         754778.52         644 25           SC-18607-S         1043772.23         754619 04         629 20           SC-18608-S         1043756.17         75467 70         627 96           SC-18609-S         1043740.13         75467.16         626.64           SC-18610-S         1043740.13         75467.16         626.64           SC-18610-S         1043740.13         754704.99         626.32           SC-18611-S         1043708.14         754733.51         634 49           SC-18612-S         1043692.09         754761 98         643 19           SC-18613-S         1043743.64         754603 10         626 02           SC-18614-S         1043743.64         754603 10         626 02           SC-18615-S         1043747.51         754603 24         625 01           SC-18615-S         1043679.47         754689.21         625.82           SC-18615-S				
SC-18603-S         1043768 77         754692.17         640.42           SC-18604-S         1043752 77         754721 03         636 02           SC-18605-S         1043736.71         754749.47         638 69           SC-18606-S         1043720 57         754778.52         644 25           SC-18607-S         1043772.23         754619 04         629 20           SC-18608-S         1043756.17         754647 70         627 96           SC-18609-S         1043740.13         754676.16         626.64           SC-18610-S         1043724.18         754704.99         628.32           SC-18611-S         1043708.14         754733.51         634 49           SC-18612-S         1043692.09         754761 98         643 19           SC-18613-S         1043743.64         754631.50         624 32           SC-18613-S         1043743.64         754631.50         624 32           SC-18613-S         1043771.56         754661.50         624 32           SC-18616-S         1043695.74         754681.50         624 32           SC-18616-S         1043695.74         754717 44         633 08           SC-18618-S         1043669.47         754762.3         641 98           SC-18618				637.36
SC-18604-S         1043752 77         754721 03         636 02           SC-18605-S         1043736.71         754749.47         638 69           SC-18606-S         1043720 57         754778.52         644 25           SC-18607-S         1043772.23         754619 04         629 20           SC-18608-S         1043756.17         754647 70         627 96           SC-18609-S         1043740.13         754676.16         626.64           SC-18610-S         1043740.13         754761.99         626.32           SC-18611-S         1043781.44         754733.51         634 49           SC-18612-S         1043781.44         754733.51         634 49           SC-18613-S         1043783.64         754603 10         626 02           SC-18613-S         1043743.64         754603 10         626 02           SC-18614-S         1043727.51         754680 24         625 01           SC-18615-S         1043711.56         754680 24         625 01           SC-18616-S         104369.574         754680 24         625 01           SC-18618-S         104369.747         754717 44         633 08           SC-18618-S         1043663.40         754701.40         634 60           SC-1862	SC-18602-S	1043784.80	754663.54	640.78
SC-18605-S         1043736.71         754749.47         638 69           SC-18606-S         1043720.57         754778.52         644 25           SC-18607-S         1043772.23         754619.04         629 20           SC-18608-S         1043756.17         754647.01         627.96           SC-18609-S         1043740.13         754676.16         626.64           SC-18610-S         1043724.18         754704.99         626.32           SC-18611-S         1043708.14         754733.51         634 49           SC-18611-S         1043708.14         754733.51         634 49           SC-18613-S         1043743.64         754603.10         626.02           SC-18614-S         1043727.51         754631.50         624 32           SC-18615-S         1043741.56         754660.24         625.01           SC-18616-S         1043695.74         754689.21         625.82           SC-18616-S         1043679.47         75471.44         633.08           SC-18618-S         1043663.40         754746.23         641.98           SC-18619-S         1043663.40         754766.23         641.98           SC-18620-S         1043663.40         754766.23         641.98           SC-1870-	SC-18603-S	1043768 77	754692.17	640.42
SC-18605-S         1043736.71         754749.47         638 69           SC-18606-S         1043720.57         754778.52         644 25           SC-18607-S         1043772.23         754619.04         629 20           SC-18608-S         1043756.17         754647.01         627.96           SC-18609-S         1043740.13         754676.16         626.64           SC-18610-S         1043724.18         754704.99         626.32           SC-18611-S         1043708.14         754733.51         634 49           SC-18611-S         1043708.14         754733.51         634 49           SC-18613-S         1043743.64         754603.10         626.02           SC-18614-S         1043727.51         754631.50         624 32           SC-18615-S         1043741.56         754660.24         625.01           SC-18616-S         1043695.74         754689.21         625.82           SC-18616-S         1043679.47         75471.44         633.08           SC-18618-S         1043663.40         754746.23         641.98           SC-18619-S         1043663.40         754766.23         641.98           SC-18620-S         1043663.40         754766.23         641.98           SC-1870-	SC-18604-S	1043752 77	754721 03	636 02
SC-18606-S         1043720 57         754778.52         644 25           SC-18607-S         1043772.23         754619 04         629 20           SC-18608-S         1043756.17         754647 70         627 96           SC-18609-S         1043740.13         754676.16         626.64           SC-18610-S         1043724.18         754704.99         626.32           SC-18611-S         1043708.14         754733.51         634 49           SC-18612-S         1043692.09         754761 98         643 19           SC-18613-S         1043743.64         754603 10         626 02           SC-18614-S         1043727.51         754631.50         624 32           SC-18615-S         1043711.56         754660 24         625 01           SC-18616-S         1043743.64         754689.21         625.82           SC-18616-S         1043747.51         754680 24         625 01           SC-18616-S         1043747.51         754680 24         625 01           SC-18616-S         1043695.74         754680 21         625.82           SC-18618-S         1043695.74         754786.23         641 98           SC-18618-S         1043663.40         754746.23         641 98           SC-1861	SC-18605-S	1043736.71	754749.47	
SC-18607-S         1043772.23         754619 04         629 20           SC-18608-S         1043756.17         754647 70         627 96           SC-18609-S         1043740.13         754676.16         626.64           SC-18610-S         1043724.18         754704.99         626.32           SC-18611-S         1043708.14         754733.51         634 49           SC-18612-S         1043692.09         754761 98         643 19           SC-18613-S         1043743.64         754603 10         626 02           SC-18614-S         1043727.51         754631.50         624 32           SC-18615-S         1043771.56         754660 24         625 01           SC-18616-S         1043695.74         754680 24         625 01           SC-18616-S         1043695.74         754680 21         625.82           SC-18617-S         1043679.47         754717.44         633 08           SC-18618-S         1043663.40         754746.23         641 98           SC-18619-S         1043663.40         754746.23         641 98           SC-18620-S         1043634.80         754710.40         634 60           SC-18620-S         1043634.80         754710.40         634 60           SC-1870	SC-18606-S			
SC-18608-S         1043756.17         754647 70         627 96           SC-18609-S         1043740.13         754676.16         626.64           SC-18610-S         1043724.18         754704.99         626.32           SC-18611-S         1043708.14         754733.51         634 49           SC-18612-S         1043692.09         754761 98         643 19           SC-18613-S         1043743.64         754603 10         626 02           SC-18614-S         1043727.51         754631.50         624 32           SC-18615-S         1043711.56         754660 24         625 01           SC-18616-S         1043695.74         754689.21         625.82           SC-18618-S         1043679.47         754717.44         633 08           SC-18618-S         1043659.44         754717.44         633 08           SC-18619-S         1043650.82         754701.40         634 60           SC-18619-S         1043653.40         754746.23         641 98           SC-18620-S         1043653.40         754746.23         641 98           SC-18620-S         1043653.82         754701.40         634 60           SC-18622-S         104366.13         754714.08         644.61           SC-18702				
SC-18609-S         1043740.13         754676.16         626.64           SC-18610-S         1043724.18         754704.99         626.32           SC-18611-S         1043708.14         754733.51         634.49           SC-18612-S         1043692.09         754761.98         643.19           SC-18613-S         1043743.64         754603.10         626.02           SC-18614-S         1043727.51         754603.15         624.32           SC-18615-S         1043711.56         754660.24         625.01           SC-18616-S         1043695.74         754689.21         625.82           SC-18618-S         1043669.77         754717.44         633.08           SC-18618-S         1043663.40         754746.23         641.98           SC-18619-S         1043650.82         754701.40         634.60           SC-18620-S         1043650.82         754701.40         634.60           SC-18621-S         1043663.480         754730.06         639.61           SC-18622-S         1043663.80         754730.06         639.61           SC-18702-S         1043663.73         754754.08         644.61           SC-18702-S         1043673.71         754526.20         637.85           SC-187				
SC-18610-S         1043724.18         754704.99         626.32           SC-18611-S         1043708.14         754733.51         634.49           SC-18612-S         1043692.09         754761.98         643.19           SC-18613-S         1043743.64         754603.10         626.02           SC-18614-S         1043727.51         754631.50         624.32           SC-18615-S         1043711.56         754630.24         625.01           SC-18615-S         1043711.56         754689.21         625.82           SC-18616-S         1043679.47         7547689.21         625.82           SC-18618-S         1043663.40         754746.23         641.98           SC-18618-S         1043663.40         754746.23         641.98           SC-18619-S         1043663.40         754746.23         641.98           SC-18619-S         1043663.82         754701.40         634.60           SC-18620-S         1043634.80         754730.06         639.61           SC-18621-S         1043662.20         754685.38         638.38           SC-18622-S         1043662.20         754685.38         638.38           SC-18701-S         1043666.13         754714.08         644.61           SC-187				
SC-18611-S         1043708.14         754733.51         634 49           SC-18612-S         1043692.09         754761 98         643 19           SC-18613-S         1043743.64         754603 10         626 02           SC-18614-S         1043727.51         754631.50         624 32           SC-18615-S         1043711.56         754660 24         625 01           SC-18616-S         1043695.74         754689.21         625.82           SC-18617-S         1043699.47         754717 44         633 08           SC-18618-S         1043693.40         754746.23         641 98           SC-18619-S         1043650.82         754701.40         634 60           SC-18620-S         1043634.80         754730.06         639.61           SC-18621-S         1043632.20         754685.38         638.38           SC-18622-S         1043660.13         754714.08         644.61           SC-18701-S         1043673.71         754526.20         637.85           SC-18702-S         1043673.71         754526.20         637.85           SC-18703-S         1043641.66         754583.46         640.60           SC-18704-S         104369.561         7546812.00         641.79           SC-187				
SC-18612-S         1043692.09         754761 98         643 19           SC-18613-S         1043743.64         754603 10         626 02           SC-18614-S         1043727.51         754631.50         624 32           SC-18615-S         1043711.56         754660 24         625 01           SC-18616-S         1043695.74         754689.21         625.82           SC-18617-S         1043679.47         754717 44         633 08           SC-18618-S         1043663.40         754746.23         641 98           SC-18619-S         1043650.82         754701.40         634 60           SC-18620-S         1043650.82         754701.40         634 60           SC-18621-S         1043650.82         754701.40         634 60           SC-18621-S         1043650.83         754730.06         639.61           SC-18622-S         1043662.20         754685.38         638.38           SC-18701-S         1043606.13         754714.08         644.61           SC-18702-S         1043673.71         754526.20         637.85           SC-18702-S         1043641.66         754583.46         640.60           SC-18704-S         1043645.60         754640.73         642.59           SC-1870				
SC-18613-S         1043743.64         754603 10         626 02           SC-18614-S         1043727.51         754631.50         624 32           SC-18615-S         1043711.56         754660 24         625 01           SC-18616-S         1043695.74         754689.21         625.82           SC-18617-S         1043679.47         754717 44         633 08           SC-18618-S         1043663.40         754746.23         641 98           SC-18619-S         1043650.82         754701.40         634 60           SC-18620-S         1043634.80         754730.06         639.61           SC-18621-S         1043622.20         754685.38         638.38           SC-18622-S         10436621.3         754714.08         644.61           SC-18701-S         1043673.71         754526.20         637.85           SC-18702-S         1043673.71         754526.20         637.85           SC-18703-S         1043641.66         754583.46         640.60           SC-18704-S         1043625.61         754640.73         642.59           SC-18706-C         1043605.51         754688.99         643.27           SC-18706-S         1043669.51         754689.40         642.60           SC-1870				634 49
SC-18614-S         1043727.51         754631.50         624 32           SC-18615-S         1043711.56         754660 24         625 01           SC-18616-S         1043695.74         754689.21         625.82           SC-18617-S         1043679.47         754717 44         633 08           SC-18618-S         1043663.40         754746.23         641 98           SC-18619-S         1043650.82         754701.40         634 60           SC-18620-S         1043634.80         754730.06         639.61           SC-18621-S         1043622.20         754685.38         638.38           SC-18622-S         1043606.13         754714.08         644.61           SC-18701-S         1043673.71         754526.20         637.85           SC-18702-S         1046357.69         754534.89         639.51           SC-18703-S         1043641.66         754583.46         640.60           SC-18704-S         1043625.61         754640.73         642.59           SC-18705-S         1043609.61         754640.73         642.59           SC-18706-C         1043609.51         754689.90         643.27           SC-18706-S         1043690.51         754699.70         635.17           SC-1870				
SC-18615-S         1043711.56         754660 24         625 01           SC-18616-S         1043695.74         754689.21         625.82           SC-18617-S         1043679.47         754717.44         633.08           SC-18618-S         1043663.40         754746.23         641.98           SC-18619-S         1043650.82         754701.40         634.60           SC-18620-S         1043634.80         754730.06         639.61           SC-18621-S         1043622.20         754685.38         638.38           SC-18622-S         1043606.13         754714.08         644.61           SC-18701-S         1043673.71         754526.20         637.85           SC-18702-S         1046357.69         754548.99         639.51           SC-18703-S         1043641.66         754583.46         640.60           SC-18704-S         1043625.61         754612.00         641.79           SC-18705-S         1043609.61         754688.99         643.27           SC-18706-C         1043605.51         754688.99         643.27           SC-18707-C         104366.93         754509.70         635.17           SC-18709-S         104366.93         754509.70         635.17           SC-18709-				626 02
SC-18615-S         1043711.56         754660 24         625 01           SC-18616-S         1043695.74         754689.21         625.82           SC-18617-S         1043679.47         754717.44         633 08           SC-18618-S         1043663.40         754746.23         641.98           SC-18619-S         1043650.82         754701.40         634.60           SC-18620-S         1043634.80         754730.06         639.61           SC-18621-S         1043622.20         754685.38         638.38           SC-18622-S         1043606.13         754714.08         644.61           SC-18701-S         1043673.71         754526.20         637.85           SC-18702-S         1043673.71         754526.20         637.85           SC-18703-S         1043641.66         754583.46         640.60           SC-18704-S         1043641.66         754583.46         640.60           SC-18705-S         1043609.61         754640.73         642.59           SC-18706-C         1043609.61         754688.99         643.27           SC-18707-C         104366.93         754509.70         635.17           SC-18709-S         104366.93         754509.70         635.17           SC-18709-	SC-18614-S	1043727.51	754631.50	624 32
SC-18616-S         1043695.74         754689.21         625.82           SC-18617-S         1043679.47         754717.44         633.08           SC-18618-S         1043663.40         754746.23         641.98           SC-18619-S         1043650.82         754701.40         634.60           SC-18620-S         1043634.80         754730.06         639.61           SC-18621-S         1043622.20         754685.38         638.38           SC-18622-S         1043606.13         754714.08         644.61           SC-18701-S         1043673.71         754526.20         637.85           SC-18702-S         1046357.69         754554.89         639.51           SC-18703-S         1043641.66         754583.46         640.60           SC-18704-S         1043625.61         754612.00         641.79           SC-18705-S         1043609.61         754640.73         642.59           SC-18706-C         1043609.61         754688.99         643.27           SC-18707-C         1043666.93         754509.70         635.17           SC-18709-S         1043645.10         754509.70         635.17           SC-18709-S         1043645.10         754538.91         637.16           SC-1871	SC-18615-S			
SC-18617-S         1043679.47         754717 44         633 08           SC-18618-S         1043663.40         754746.23         641 98           SC-18619-S         1043650.82         754701.40         634 60           SC-18620-S         1043634.80         754730.06         639.61           SC-18621-S         1043622.20         754685.38         638.38           SC-18622-S         1043606.13         754714.08         644.61           SC-18701-S         1043673.71         754526.20         637.85           SC-18702-S         1046357.69         754554.89         639.51           SC-18703-S         1043641.66         754583.46         640.60           SC-18704-S         1043625.61         754612.00         641.79           SC-18705-S         1043609.61         754640.73         642.59           SC-18706-C         1043605.51         754688.99         643.27           SC-18707-C         1043666.93         754509.70         635.17           SC-18708-S         1043645.10         754538.91         637.16           SC-18709-S         1043645.10         754538.91         637.16           SC-18710-S         1043669.07         754538.91         637.16           SC-1871	SC-18616-S			
SC-18618-S         1043663.40         754746.23         641 98           SC-18619-S         1043650.82         754701.40         634 60           SC-18620-S         1043634.80         754730.06         639.61           SC-18621-S         1043622.20         754685.38         638.38           SC-18622-S         1043606.13         754714.08         644.61           SC-18701-S         1043673.71         754526.20         637.85           SC-18702-S         1046357.69         754554.89         639.51           SC-18703-S         1043641.66         754583.46         640.60           SC-18704-S         1043625.61         754612.00         641.79           SC-18705-S         1043609.61         754640.73         642.59           SC-18706-C         1043605.51         754688.99         643.27           SC-18707-C         1043666.93         75469.40         642.60           SC-18708-S         1043645.10         754538.91         635.17           SC-18709-S         1043645.10         754538.91         637.16           SC-18710-S         1043613.04         754567.48         638.67				
SC-18619-S         1043650.82         754701.40         634 60           SC-18620-S         1043634.80         754730.06         639.61           SC-18621-S         1043622.20         754685.38         638.38           SC-18622-S         1043606.13         754714.08         644.61           SC-18701-S         1043673.71         754526.20         637.85           SC-18702-S         1046357.69         754554.89         639.51           SC-18703-S         1043641.66         754583.46         640.60           SC-18704-S         1043625.61         754612.00         641.79           SC-18705-S         1043609.61         754640.73         642.59           SC-18706-C         1043605.51         754688.99         643.27           SC-18707-C         1043666.93         754509.70         635.17           SC-18708-S         1043645.10         754510.33         635.29           SC-18709-S         1043629.07         754538.91         637.16           SC-18710-S         1043613.04         754567.48         638.67				
SC-18620-S         1043634.80         754730 06         639.61           SC-18621-S         1043622.20         754685.38         638.38           SC-18622-S         1043606.13         754714.08         644.61           SC-18701-S         1043673.71         754526.20         637.85           SC-18702-S         1046357.69         754554.89         639.51           SC-18703-S         1043641.66         754583.46         640.60           SC-18704-S         1043625.61         754612.00         641.79           SC-18705-S         1043609.61         754640.73         642.59           SC-18706-C         1043605.51         754688.99         643.27           SC-18706-S         1043593.60         754669.40         642.60           SC-18707-C         1043666.93         754509.70         635.17           SC-18709-S         1043645.10         754510.33         635.29           SC-18710-S         1043613.04         754567.48         638.67				
SC-18621-S         1043622.20         754685.38         638.38           SC-18622-S         1043606.13         754714.08         644.61           SC-18701-S         1043673.71         754526.20         637.85           SC-18702-S         1046357.69         754554.89         639.51           SC-18703-S         1043641.66         754583.46         640.60           SC-18704-S         1043625.61         754612.00         641.79           SC-18705-S         1043609.61         754640.73         642.59           SC-18706-C         1043605.51         754688.99         643.27           SC-18706-S         1043593.60         754669.40         642.60           SC-18707-C         1043666.93         754509.70         635.17           SC-18708-S         1043645.10         754538.91         637.16           SC-18710-S         1043613.04         754567.48         638.67				
SC-18622-S         1043606.13         754714.08         644.61           SC-18701-S         1043673.71         754526.20         637.85           SC-18702-S         1046357.69         754554.89         639.51           SC-18703-S         1043641.66         754583.46         640.60           SC-18704-S         1043625.61         754612.00         641.79           SC-18705-S         1043609.61         754640.73         642.59           SC-18706-C         1043605.51         754688.99         643.27           SC-18706-S         1043593.60         754669.40         642.60           SC-18707-C         1043666.93         754509.70         635.17           SC-18708-S         1043645.10         754510.33         635.29           SC-18709-S         1043629.07         754538.91         637.16           SC-18710-S         1043613.04         754567.48         638.67				
SC-18701-S         1043673.71         754526 20         637.85           SC-18702-S         1046357.69         754554.89         639.51           SC-18703-S         1043641 66         754583.46         640 60           SC-18704-S         1043625.61         754612.00         641 79           SC-18705-S         1043609.61         754640.73         642.59           SC-18706-C         1043605.51         754688 99         643.27           SC-18706-S         1043593 60         754669.40         642.60           SC-18707-C         1043666 93         754509 70         635.17           SC-18708-S         1043645 10         754510.33         635.29           SC-18709-S         1043629 07         754538 91         637 16           SC-18710-S         1043613 04         754567 48         638 67				
SC-18702-S         1046357.69         754554.89         639.51           SC-18703-S         1043641.66         754583.46         640.60           SC-18704-S         1043625.61         754612.00         641.79           SC-18705-S         1043609.61         754640.73         642.59           SC-18706-C         1043605.51         754688.99         643.27           SC-18706-S         1043593.60         754669.40         642.60           SC-18707-C         1043666.93         754509.70         635.17           SC-18708-S         1043645.10         754510.33         635.29           SC-18709-S         1043629.07         754538.91         637.16           SC-18710-S         1043613.04         754567.48         638.67				
SC-18703-S         1043641 66         754583.46         640 60           SC-18704-S         1043625.61         754612.00         641 79           SC-18705-S         1043609.61         754640.73         642.59           SC-18706-C         1043605.51         754688 99         643.27           SC-18706-S         1043593 60         754669.40         642.60           SC-18707-C         1043666 93         754509 70         635.17           SC-18708-S         1043645 10         754510.33         635.29           SC-18709-S         1043629 07         754538 91         637 16           SC-18710-S         1043613 04         754567 48         638 67			754526 20	637.85
SC-18704-S         1043625.61         754612.00         641 79           SC-18705-S         1043609.61         754640.73         642.59           SC-18706-C         1043605.51         754688 99         643.27           SC-18706-S         1043593 60         754669.40         642.60           SC-18707-C         1043666 93         754509 70         635.17           SC-18708-S         1043645 10         754510.33         635.29           SC-18709-S         1043629 07         754538 91         637 16           SC-18710-S         1043613 04         754567 48         638 67		1046357.69	754554.89	639.51
SC-18704-S         1043625.61         754612.00         641 79           SC-18705-S         1043609.61         754640.73         642.59           SC-18706-C         1043605.51         754688 99         643.27           SC-18706-S         1043593 60         754669.40         642.60           SC-18707-C         1043666 93         754509 70         635.17           SC-18708-S         1043645 10         754510.33         635.29           SC-18709-S         1043629 07         754538 91         637 16           SC-18710-S         1043613 04         754567 48         638 67	SC-18703-S	1043641 66	754583.46	640 60
SC-18705-S         1043609.61         754640.73         642.59           SC-18706-C         1043605.51         754688.99         643.27           SC-18706-S         1043593.60         754669.40         642.60           SC-18707-C         1043666.93         754509.70         635.17           SC-18708-S         1043645.10         754510.33         635.29           SC-18709-S         1043629.07         754538.91         637.16           SC-18710-S         1043613.04         754567.48         638.67	SC-18704-S	1043625.61		
SC-18706-C         1043605.51         754688 99         643.27           SC-18706-S         1043593 60         754669.40         642.60           SC-18707-C         1043666 93         754509 70         635.17           SC-18708-S         1043645 10         754510.33         635.29           SC-18709-S         1043629 07         754538 91         637 16           SC-18710-S         1043613 04         754567 48         638 67				
SC-18706-S         1043593 60         754669.40         642.60           SC-18707-C         1043666 93         754509 70         635.17           SC-18708-S         1043645 10         754510.33         635.29           SC-18709-S         1043629 07         754538 91         637 16           SC-18710-S         1043613 04         754567 48         638 67				
SC-18707-C     1043666 93     754509 70     635.17       SC-18708-S     1043645 10     754510.33     635.29       SC-18709-S     1043629 07     754538 91     637 16       SC-18710-S     1043613 04     754567 48     638 67				
SC-18708-S         1043645 10         754510.33         635.29           SC-18709-S         1043629 07         754538 91         637 16           SC-18710-S         1043613 04         754567 48         638 67				
SC-18709-S         1043629 07         754538 91         637 16           SC-18710-S         1043613 04         754567 48         638 67				
SC-18710-S 1043613 04 754567 48 638 67				
				637 16
SC-18711-S 1043596 97 754595 95 640 00			754567 48	638 67
	SC-18711-S	1043596 97	754595 95	640 00

# WP437 RU18 SAMPLE LOCATION COORDINATES

SC-18712-C	1043590.74	754645.66	640.94
SC-18712-S	1043580.95	754624.63	641.69
SC-18716-S	1043600.43	754522.78	638.14
SC-18717-S	1043584.37	754551.35	640.16
SC-18718-S	1043568.34	754579.95	642.80
SC-18720-C	1043593.25	754508.15	636.54
SC-18721-S	1043571.82	754506.88	638.08
SC-18722-S	1043555.74	754535.28	640.47
SC-18726-S	1043527.43	754519.54	641.24
SC-18803-S	1043791.64	754517.00	634.47
SC-18804-S	1043775.64	754545.75	638.75
SC-18805-S	1043759.63	754574.41	637.32
	1043762.96	754500.78	632.33
SC-18807-S	1043747.06	754529.83	636.97
SC-18808-S	1043731.01	754558.37	639.38
SC-18809-S	1043714.89	754586.80	628.31
SC-18810-S	1043698.95	754615.62	623.80
SC-18811-S	1043682.90	754644.18	624.43
SC-18812-S	1043666.80	754672.70	624.80
SC-18813-S	1043718.27	754514.10	634.63
SC-18816-S	1043702.39	754542.44	639.43
SC-18817-S	1043686.32	754570.83	633.17
SC-18818-S	1043670.28	754599.45	631.35
SC-18819-S	1043654.25	754628.04	632.06
SC-18820-S	1043638.25	754656.80	633 12
SC-18821-S SC-39601-U	1043909.66	754568.24	641.70
SC-39602-U	1043879.86	754580.61	645.26
SC-39603-U	1043850.24	754594.15	649.02
SC-39604-U	1043820.29	754605.42	652.49
	1043787.16	754611.22	654.75
SC-39605-U	1043759.97	. 754614.19	659.03
SC-39606-U	1043901.69	754528.21	638.52
SC-39607-U	1043872.01	754543.47	640.06
SC-39608-U	1043841.92	754555.18	644.56*
SC-39609-U-RS	1043812.63	754567.56	650.61
SC-39610-U	1043782.83	754577.80	655.00
SC-39611-U SC-39612-U	1043750.28	754583.21	661.12

<sup>\*</sup> approximate elevation as determined by as-built topo